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UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF WASHINGTON
AT TACOMA

COLUMBIA RIVERKEEPER,

Plaintiff,

v.

PORT OF LONGVIEW,

Defendant.

COMPLAINT

I. INTRODUCTION

1. This action is a citizen suit brought under Section 505 of the Clean Water Act (“CWA”) as amended, 33 U.S.C. § 1365. Plaintiff Columbia Riverkeeper seeks a declaratory judgment, injunctive relief, the imposition of civil penalties, and the award of costs, including attorneys’ and expert witnesses’ fees, for Defendant Port of Longview’s repeated and ongoing violations of Sections 301(a) and 402 of the CWA, 33 U.S.C. §§ 1311(a) and 1342, and the terms and conditions of its National Pollutant Discharge Elimination System (“NPDES”) permit

1 authorizing discharges of pollutants from Defendant's Longview, Washington, facility to
2 navigable waters.

3 II. JURISDICTION AND VENUE

4 2. The Court has subject matter jurisdiction under Section 505(a) of the CWA, 33
5 U.S.C. § 1365(a). The relief requested herein is authorized by 33 U.S.C. §§ 1319(d) and
6 1365(a).
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8 3. Under Section 505 (b)(1)(A) of the CWA, 33 U.S.C. § 1365(b)(1)(A), Plaintiff
9 notified Defendant of Defendant's violations of the CWA and of Plaintiff's intent to sue under
10 the CWA by letter dated and postmarked July 24, 2020 and delivered July 28, 2020 ("Notice
11 Letter"). A copy of the Notice Letter is attached to this complaint as Exhibit 1. The allegations
12 in the Notice Letter are incorporated herein by this reference. Plaintiff notified Defendant's
13 Registered Agent, the Administrator of the United States Environmental Protection Agency
14 ("USEPA"), the Administrator of USEPA Region 10, and the Director of the Washington
15 Department of Ecology ("WDOE") of its intent to sue Defendant by mailing copies of the Notice
16 Letter to these officials on July 24, 2020.
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18 4. More than sixty days have passed since the Notice Letter was served and the
19 violations complained of in the Notice Letter are continuing or are reasonably likely to continue
20 to occur. Defendant is in violation of its NPDES permit and the CWA. Neither the USEPA nor
21 the WDOE has commenced any action constituting diligent prosecution to redress these
22 violations.
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24 5. The source of the violations complained of is located in Cowlitz County,
25 Washington, within the Western District of Washington, and venue is therefore appropriate in
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1 the Western District of Washington pursuant to Section 505(c)(1) of the CWA, 33 U.S.C. §
2 1365(c)(1).

3 III. PARTIES

4 6. Plaintiff, Columbia Riverkeeper, is suing on behalf of itself and its members.
5 Columbia Riverkeeper is a 501(c) non-profit corporation organized under the laws of the State of
6 Washington. The mission of Columbia Riverkeeper is to restore and protect the water quality of
7 the Columbia River and all life connected to it, from the headwaters to the Pacific Ocean. To
8 achieve these objectives, Columbia Riverkeeper implements scientific, educational, and legal
9 programs aimed at protecting water quality and the habitat in the Columbia River Basin. This
10 lawsuit is part of Columbia Riverkeeper's effort to improve water quality in the Columbia River
11 Basin for purposes including recreation, habitat quality, and subsistence, recreational, and
12 commercial fishing.
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14 7. Plaintiff has representational standing to bring this action. Columbia Riverkeeper
15 has over 16,000 members, many of whom reside in the vicinity of waters affected by
16 Defendant's discharges of pollutants. Members of Columbia Riverkeeper use and enjoy the
17 waters and surrounding areas that are adversely affected by Defendant's discharges. Columbia
18 Riverkeeper's members use these areas for, *inter alia*, fishing, swimming, hiking, walking,
19 photography, boating, and observing wildlife. Columbia Riverkeeper's members have serious
20 concerns about the impacts of Defendant's operations and polluted industrial stormwater and
21 commodity discharges on the Columbia River. The environmental, health, aesthetic, and
22 recreational interests of Columbia Riverkeeper's members have been, are being, and will be
23 adversely affected by Defendant's NPDES permit violations addressed herein and by the
24 members' reasonable concerns related to the effects of the violations and pollutant discharges.
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1 In addition, discharges from Defendant's facility lessen Columbia Riverkeeper's members'
2 aesthetic enjoyment of nearby areas. Columbia Riverkeeper's members' concerns about the
3 effects of Defendant's discharges are aggravated by Defendant's failure to record and report
4 information about its discharges and pollution controls. These injuries are fairly traceable to the
5 Defendant's violations of the CWA and are redressable by the Court.

6
7 8. Plaintiff has organizational standing to bring this action. Plaintiff actively
8 engages in a variety of educational and advocacy efforts to improve water quality and to address
9 sources of water quality degradation in the Columbia River and its tributaries. Defendant has
10 failed to fulfill monitoring, recordkeeping, reporting, public disclosure, and planning
11 requirements, among others, necessary for compliance with its NPDES permit and the CWA. As
12 a result, Plaintiff is deprived of information that supports its ability to advance its mission and
13 serve its members by disseminating information and taking appropriate action. Plaintiff's efforts
14 to educate and advocate for greater environmental protection for the benefit of its members is
15 thereby obstructed. Finally, Plaintiff and the public are deprived of information that influences
16 members of the public to become members of Columbia Riverkeeper, thereby reducing
17 Columbia Riverkeeper's membership numbers. Thus, Plaintiff's organizational interests have
18 been adversely affected by Defendant's violations. These injuries are fairly traceable to
19 Defendant's violations and are redressable by the Court.

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22 9. Defendant is a port district under the state laws governing ports or port districts.

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24 10. Defendant owns and operates a port facility used as a public port district where it
25 conducts a variety of industrial activities including the storage, handling and transportation of
26 various bulk materials and products, and other activities supporting those operations, located at
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1 or about 10 E. Port Way, Longview, Washington 98632, including contiguous or adjacent
2 properties owned or operated by Defendant (the “facility”).

3 IV. LEGAL BACKGROUND

4 11. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of
5 pollutants by any person, unless in compliance with the provisions of the CWA. Section 301(a)
6 prohibits, inter alia, such discharges not authorized by, or in violation of, the terms of a NPDES
7 permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

8 12. The State of Washington has established a federally approved state NPDES
9 program administered by the WDOE. WASH. REV. CODE § 90.48.260; WASH. ADMIN.
10 CODE Ch. 173-220. This program was approved by the Administrator of the USEPA pursuant
11 to 33 U.S.C. § 1342(b).

12 13. Pursuant to Section 402(a) of the CWA, 33 U.S.C. § 1342(a), the WDOE has
13 repeatedly issued the Industrial Stormwater General Permit (“ISGP” or “General Permit”), most
14 recently on November 20, 2019, effective January 1, 2020, and set to expire on December 3,
15 2024 (the “2020 Permit”). The previous iteration of the permit was issued December 3, 2014,
16 became effective January 2, 2015, and expired December 31, 2019 (the “2015 Permit”). The
17 2015 Permit and 2020 Permit (collectively, “the Permits”), contain substantially similar
18 requirements and authorize those that obtain coverage under the General Permit to discharge
19 stormwater, a pollutant under the CWA, and other pollutants contained in the stormwater to the
20 waters of the State subject to certain terms and conditions.

21 14. The Permits impose certain terms and conditions on those covered thereby,
22 including monitoring and sampling of discharges, reporting and recordkeeping requirements. To
23 reduce and eliminate pollutant concentrations in stormwater discharges, the Permits require,
24

1 among other things, that permittees develop and implement best management practices
2 (“BMPs”) and a Stormwater Pollution Prevention Plan (“SWPPP”), and apply all known and
3 reasonable methods of prevention, control and treatment (“AKART”) to discharges. When a
4 permittee’s stormwater discharge exceeds benchmark values for concentrations of certain
5 pollutants (and action levels for concentrations of certain pollutants in a previous version of the
6 General Permit), the Permits require the permittee to complete the applicable Level 1, 2, or 3
7 corrective action requirements. The specific terms and conditions of the General Permit are
8 described in detail in the Notice Letter, attached hereto as Exhibit 1, and incorporated herein by
9 this reference.
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12 V. FACTS

13 15. Pursuant to Condition S2 of the Permits, WDOE granted the Defendant General
14 Permit coverage for the facility under Permit Number WAR001242. WDOE previously granted
15 Defendant coverage under an earlier version of the General Permit for Defendant’s facility under
16 Permit Number SO3001242.
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18 16. Defendant’s facility is engaged in industrial activity and discharges stormwater
19 and other pollutants to the Columbia River via pipes, ditches, scuppers, docks, a stormwater
20 management system, sheet flow and the ground, among others.
21

22 17. Defendant discharges bulk material handled at the facility’s vessel berths to the
23 Columbia River, including but not limited to grain, grain dust, petroleum coke, petroleum coke
24 dust, and other bulk material and remnants via point sources, including but not limited to the
25 facility’s material loading and unloading systems, facility piers, and tools and equipment used to
26 clear the wharfs.
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1 18. Discharges from Defendant's facility contribute to the polluted conditions of the
2 waters of the State, including to the impairment of the Columbia River for bacteria, dissolved
3 oxygen, turbidity, copper, zinc and aesthetic values, which has resulted in the inclusion of the
4 Columbia River on the 303(d) list of impaired waters. Discharges from Defendant's facility
5 contribute to the ecological impacts that result from the polluted state of these waters and to
6 Plaintiff's and their members' injuries resulting therefrom.
7

8 19. The vicinity of the facility and the receiving waters are used by the citizens of
9 Washington and visitors, as well as at least one of Plaintiff's members, for recreational activities,
10 including boating, biking, fishing and nature watching. Plaintiff's member(s) also derive(s)
11 aesthetic benefits from the receiving waters. Plaintiff's and its members' enjoyment of these
12 activities and waters is diminished by the polluted state of the receiving waters and by
13 Defendant's contributions to such polluted state.
14

15 20. Defendant has violated the Permits and Sections 301(a) and 402 of the CWA, 33
16 U.S.C. §§ 1311(a) and 1342, by discharging pollutants in violation of an NPDES Permit.
17 Defendant's violations of the Permits and the CWA are set forth in full in sections II through VII
18 of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
19 In particular and among the other violations described in the Notice Letter, Defendant has failed
20 to collect representative stormwater discharge samples, failed to prevent illicit discharges, failed
21 to timely submit Discharge Monitoring Reports, failed to apply the Permits to the entire facility,
22 failed to implement a compliant SWPPP, failed to comply with the Permits' corrective actions
23 and failed to implement best management practices to control stormwater quality as required by
24 the Permits.
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21. Defendant has discharged stormwater containing levels of pollutants that exceed the benchmark values established in the Permits, as specified in Table 1 below. Defendant's stormwater discharges are causing or contributing to violations of water quality standards and therefore violate the Permits, Condition S10.A. Additionally, Defendant's exceedances of the benchmark values demonstrate that Defendant is failing to apply AKART to its discharges and/or is failing to implement an adequate SWPPP and BMPs. These requirements and violations are described in detail in section II of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

22. Defendant has sampled its stormwater discharges in the calendar quarters identified in Table 1 of this Complaint and determined that such discharges contained pollution in amounts exceeding benchmarks, as shown in Table 1.

Table 1: Port of Longview Stormwater Discharges that Exceed Benchmark Values from 1st Quarter 2014 to 4th Quarter 2019

Quarter in which sample collected (sample location)	Turbidity (Benchmark 25 NTU)	Zn Concentrations (Benchmark 117 µg/L)	Cu Concentration (Benchmark 14 µg/L)
1Q 2014 (001)	32 NTU	204 µg/L	
2Q 2014 (001)	258	160	17.5 µg/L
2Q 2014 (004)	40		
2Q 2014 (005)	728	1,090	15
3Q 2014 (001)	49	312	14.7
4Q 2014 (001)	43		
4Q 2014 (005)	580	938	24.4
1Q 2015 (001)	32		
1Q 2015 (005)	863	660	34.9
2Q 2015 (001)	42	172	
3Q 2015 (001)	189	264	21
3Q 2015 (004)	53		
1Q 2016 (001)		364	
2Q 2016 (001)	33	205	
2Q 2016 (003)	29		
3Q 2016 (001)	91		23.1

3Q 2016 (003)	38		
3Q 2016 (004)			22.7
4Q 2016 (001)	90	218	
1Q 2017 (001)	56	155	
3Q 2017 (001)	93		
3Q 2017 (003)	84		
3Q 2017 (004)	43		
4Q 2017 (001)	94.67	209.967	
4Q 2017 (003)	151.33		
4Q 2017 (004)	62.67		
1Q 2018 (001)	37		
2Q 2018 (001)	96	191	
2Q 2018 (004)	31		
3Q 2018 (001)	128	314	21.1
3Q 2018 (003)	26		
3Q 2018 (004)	47		
4Q 2018 (001)		139	
4Q 2019 (004)	26.2857		

23. The stormwater samples identified in Table 1 are representative of and accurately characterize the quality of stormwater discharges generated by the facility during the associated calendar quarter.

24. Defendant has violated the prohibition on illicit discharges of the Permits' Condition S5.E. The facility discharges petroleum coke, petroleum coke dust, grain, grain dust and other bulk commodities and remnants to the Columbia River, all of which are illicit discharges under the Permits. Defendant does not possess and has never possessed an NPDES permit for its non-stormwater discharges of these materials. Discharging these materials directly to the Columbia River from the facility conveyor systems, from mechanical loaders or cranes, from piers, and with shovels, hoses or other equipment during wharf cleanup are all unpermitted point-source discharges of pollutants to surface waters that violated the Clean Water Act § 301(a), 33 U.S.C. §§ 1311(a), prohibition on pollutant discharges. Defendant has also violated the requirement of the Permits' Condition S7.B.3.b to eliminate illicit discharges within 30 days

1 of discovery and the requirement of Condition S3.B.4.b.i.7 to include measures in Defendant's
2 SWPPP to identify and eliminate these illicit discharges to surface waters. These requirements
3 and violations are described in detail in section IV of the Notice Letter, attached hereto as
4 Exhibit 1, and are incorporated herein by this reference.

5 25. Defendant has not developed and/or implemented a SWPPP in accordance with
6 the requirements of the Permits, Condition S3. Defendant's SWPPP does not specify all of the
7 BMPs that are necessary to provide AKART and to ensure that discharges do not cause or
8 contribute to violations of water quality standards, does not include a compliant site map, does
9 not include an adequate facility assessment, inventory of industrial activities and inventory of
10 materials in sufficient detail, does not include a compliant stormwater sampling plan and does
11 not satisfy other requirements of the Permits, including certain mandatory BMPs. These SWPPP
12 requirements and violations are described in detail in section III of the Notice Letter, attached
13 hereto as Exhibit 1, and are incorporated herein by this reference.

14 26. Defendant has violated and continues to violate the monitoring requirements in
15 the Permits. Defendant has failed to collect stormwater samples and/or submit discharge
16 monitoring reports during all quarters as required by the Permits. *See* 2020 Permit Conditions
17 S3.B.5, S4 and S9.B and E; 2015 Permit Conditions S3.B.5, S4 and S9.A and D.

18 27. Defendant failed to collect stormwater samples and/or to submit DMRs in the last
19 five years for the following discharges, all of which are from distinct points of discharge not
20 substantially identical to any other discharge point: (1) discharges from the wharf at Berths 1 and
21 2; (2) discharges from the wharf at Berth 5; (3) discharges from the wharf at Berth 6; (4)
22 discharges from the wharf at Berth 7; (5) discharges from the wharf at Berth 8; (6) discharges
23 from the wharf at Berth 9, (7) discharges from two or more locations in the upland grain terminal

area; (8) other locations that sometimes discharge to sanitary sewer but also discharge stormwater to the Columbia River at other times, depending on the position of a valve in the corresponding conveyance pipe; (9) other discharge points along the perimeter of the facility; and (10) discharges from other upland portions of the facility that do not drain to either of the designated stormwater sample locations, including but not limited to discharges from the North Quadrant of the facility where warehouses, a shed and kiln are located, among other distinct discharge locations. These monitoring requirements and violations are described in section VI of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

28. Defendant has failed and continues to fail to calculate daily averages for samples taken within a 24-hour period and then use the daily average to calculate a quarterly average as required by the Permits Condition S4.B. Defendant's monitoring point "001" DMR data for the fourth quarter of 2019 and Defendant's monitoring point "004" DMR data for the second quarter of 2020 were not calculated in accordance with the Permits. Had Defendant calculated the daily average and then factored that number in the quarterly average as required for these DMRs, Defendant would have reported additional turbidity benchmark exceedances. These requirements and violations are described in section VI.D of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

29. Defendant has failed to analyze for certain parameters during the following monitoring periods as indicated in Table 2 of this Complaint, below. *See* Permits Table 6.

Table 2: Port of Longview's Monitoring Periods Missing Required Data for Certain Parameters.

Outfall 001

Monitoring Period

3rd Quarter 2019

1st Quarter 2020

2nd Quarter 2020

Parameters not sampled for

Petroleum Hydrocarbons

E. coli

E. coli

Outfall 003Monitoring Period

All quarters 2015-2019
 3rd Quarter 2019
 4th Quarter 2019
 1st Quarter 2020

Parameters not sampled for

Fecal coliform
 Copper, Zinc, Petroleum Hydrocarbons
 Copper, Zinc, Petroleum Hydrocarbons
 E. coli

Outfall 004Monitoring Period

3rd Quarter 2019
 1st Quarter 2020
 2nd Quarter 2020

Parameters not sampled for

Copper, Zinc, Petroleum Hydrocarbons
 E. coli
 E. coli

30. Defendant has and continues to fail to sample stormwater discharge from the first fall storm event each year as required by Permit Condition S4.B.1.b. and failed to report those samples as required by Permit Condition S9.B. These requirements and violations are described in section VI.E of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

31. Defendant has not conducted and/or documented inspections as required by the Permit Condition S7. These inspection requirements and violations are described in detail in section VI.F of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

32. Defendant has not conducted and/or completed the corrective action responses as required by the Permits. Condition S8.B of the Permits require permittee to undertake a Level 1 corrective action whenever it exceeds a benchmark value identified in Condition S5. A Level 1 corrective action comprises an inspection to investigate the cause of the benchmark exceedance within 14 days of receipt of the corresponding sample results, review of the SWPPP to ensure permit compliance, revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges, including signature and certification of the revised SWPPP, summary of the Level 1 corrective action in

1 the annual report, and full implementation of the revised SWPPP as soon as possible, but no later
2 than the DMR due date for the quarter the benchmark was exceeded. Defendant was required to
3 complete a Level 1 corrective action for every benchmark exceedance identified in Table 1
4 above, as well as for the turbidity benchmark exceedances identified in paragraph 28 of this
5 Complaint, which Defendant did not report on a DMR. Defendant has not completed all of these
6 corrective actions as required. These corrective action requirements and violations are described
7 in section V.A of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by
8 this reference.
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10 33. Condition S8.D. of the Permits require a permittee to undertake a Level 3
11 corrective action whenever it exceeds a benchmark value for any three quarters during a calendar
12 year. A Level 3 corrective action comprises review of the SWPPP to ensure permit compliance,
13 revision of the SWPPP to include additional treatment BMPs with the goal of achieving the
14 applicable benchmark value in future discharges, including signature and certification of the
15 revised SWPPP in accordance with Condition S3.A.5., submit an engineering report with certain
16 elements to Ecology for review for any treatment BMPs that require a site-specific design or
17 sizing, summary of the Level 3 corrective action (planned or taken) in the annual report, and full
18 implementation of the revised SWPPP by September 30 of the following year, including
19 installation of necessary treatment BMPs. Defendant triggered Level 3 response requirements
20 for turbidity and zinc in 2018. Defendant has not completed all of the corrective actions as
21 required. These corrective action requirements and violations are described in section V.B of the
22 Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.
23

24 34. Defendant is violating the recordkeeping requirements of the Permits. The
25 recordkeeping requirements are outlined in Condition S9.D of the Permits. The Permits require
26

1 the retention of the records identified for a minimum of five (5) years. Defendant is in violation
2 of this condition by failing to retain the sampling documentation of Condition S4.B.4, the
3 inspection documentation of S7, equipment calibration records, all BMP maintenance records, all
4 original recordings for continuous sampling instrumentation, copies of all laboratory reports as
5 described in S3.B.5, all DMRs, or copies of any other reports required by the Permit for the
6 specified five-year period.
7

8 35. A significant penalty should be imposed against Defendant pursuant to the
9 penalty factors set forth in 33 U.S.C. § 1319(d).
10

11 36. Defendant's violations of the CWA degrade the environment and the water
12 quality of the receiving water bodies.

13 37. Defendant's violations were avoidable had Defendant been diligent in overseeing
14 facility operations and maintenance.

15 38. Defendant has benefited economically as a consequence of its violations and its
16 failure to implement improvements at the facility.
17

18 VI. CAUSE OF ACTION

19 39. The preceding paragraphs and the allegations in sections I through VIII of the
20 Notice Letter are incorporated herein.
21

22 40. Defendant's violations of its NPDES permit described herein and in the Notice
23 Letter constitute violations of "effluent standard(s) or limitation(s)" as defined by section 505, 33
24 U.S.C. § 1365.

25 41. The violations committed by Defendant are ongoing or are reasonably likely to
26 continue to occur. Any and all additional violations of the General Permit and the CWA which
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1 occur after those described in Plaintiff's Notice Letter but before a final decision in this action
 2 should be considered continuing violations subject to this Complaint.

3 42. Without the imposition of appropriate civil penalties and the issuance of an
 4 injunction, Defendant is likely to continue to violate the General Permit and the CWA to the
 5 further injury of the Plaintiff, its member(s) and others.
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7 43. A copy of this Complaint was served upon the Attorney General of the United
 8 States and the Administrator of the USEPA as required by 33 U.S.C. § 1365(c)(3).
 9

10 **VII. RELIEF REQUESTED**

11 Wherefore, Plaintiff respectfully requests that this Court grant the following relief:

12 A. Issue a declaratory judgment that Defendant has violated and continues to be in
 13 violation of the Permits and Sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§ 1311
 14 and 1342;
 15

16 B. Enjoin Defendant from operating its facility in a manner that results in further
 17 violations of the Permits or the Clean Water Act;

18 C. Order Defendant to immediately implement a SWPPP that complies with the
 19 2020 Permit, and to provide Plaintiff with a copy of this Plan;
 20

21 D. Order Defendant to allow Plaintiff to participate in the development and
 22 implementation of Defendant's SWPPP;

23 E. Order Defendant to provide Plaintiff, for a period beginning on the date of the
 24 Court's Order and running for one year after Defendant achieves compliance with all of the
 25 conditions of the Permits, with copies of all reports and other documents which Defendant
 26 submits to the USEPA or to the WDOE regarding Defendant's coverage under the General
 27 Permit at the time it is submitted to these authorities;
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1 F. Order Defendant to take specific actions to remediate the environmental harm
2 caused by its violations;

3 G. Order Defendant to abate unpermitted discharges from its facility until Defendant
4 obtains a permit for such discharges or until such discharges are eliminated;

5 H. Grant such other preliminary and/or permanent injunctive relief as Columbia
6 Riverkeeper may from time to time request during the pendency of this case;

7 I. Order Defendant to pay civil penalties of \$55,800.00 per day of violation for each
8 violation committed by Defendant since November 2, 2015 and \$37,500.00 per day of violation
9 for each violation committed by Defendant before November 2, 2015 pursuant to Sections
10 309(d) and 505(a) of the CWA, 33 U.S.C. §§ 1319(d) and 1365(a), and 40 C.F.R. § 19;

11 J. Award Plaintiff their litigation expenses, including reasonable attorneys' and
12 expert witness fees, as authorized by Section 505(d) of the CWA, 33 U.S.C. § 1365(d); and

13 K. Award such other relief as this Court deems appropriate.
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1 RESPECTFULLY SUBMITTED this 2nd day of October, 2020.

2 **SMITH & LOWNEY, PLLC**

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13 **COLUMBIA RIVERKEEPER**

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EXHIBIT 1

SMITH & LOWNEY, P.L.L.C.
2317 EAST JOHN STREET
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(206) 860-2883, FAX (206) 860-4187

July 24, 2020

Via CERTIFIED MAIL – Return Receipt Requested

Dan Stahl, Interim CEO
Port of Longview
10 Port Way
Longview, WA 98632

Dan Stahl, Interim CEO
Port of Longview
PO Box 1258
Longview, WA 98632-7739

Mark Price, Director of Marine Terminals
Port of Longview
PO Box 1258
Longview, WA 98632-7739

Lisa Hendricksen, Director of Planning and Environmental Services
Port of Longview
PO Box 1258
Longview, WA 98632-7739

**Re: NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND
REQUEST FOR COPY OF STORMWATER POLLUTION PREVENTION PLAN**

Dear Managing Agent:

We represent Columbia Riverkeeper, 407 Portway Ave, Suite 301, Hood River, OR 97031. Any response or correspondence related to this matter should be directed to us at the letterhead address. This letter provides you with sixty days' notice of Columbia Riverkeeper's intent to file a citizen suit against the Port of Longview ("the Port") under Section 505 of the Clean Water Act ("CWA"), 33 U.S.C § 1365, for the violations described below. This letter also requests a copy of the complete and current stormwater pollution prevention plan ("SWPPP") required by the Port's National Pollution Discharge Elimination System ("NPDES") permit.

The Port was granted coverage under Washington's Industrial Stormwater General Permit ("ISGP") issued by the Washington Department of Ecology ("Ecology") on December 3, 2014 and effective January 2, 2015 under NPDES permit number WAR001242 ("the 2015 Permit"). The 2015 Permit expired on December 31, 2019 and was replaced with the subsequent iteration of the ISGP, effective January 1, 2020 and set to expire on December 31, 2024 ("the

2020 Permit”). The Port applied for renewal within 180 days of the 2015 Permit’s expiration. Ecology granted the Port coverage under the 2020 Permit, maintaining the same permit number, WAR001242.

The Port has violated and continues to violate the CWA (see Sections 301 and 402 of the CWA, 33 U.S.C. §§ 1311 and 1342) and the terms and conditions of the 2015 Permit and 2020 Permit (collectively, the “Permits”) with respect to the operation of, and discharges of stormwater and pollutants from, its facility located at or near 10 E Port Way, Longview, Washington 98632 (“the facility”), where it operates as a public port district for various properties, including warehouses, industrial and commercial buildings, marine facilities, grain terminals, ship load-out facilities (berths), industrial wastewater collection and treatment facilities, and some undeveloped land. The facility subject to this notice includes any contiguous or adjacent properties owned or operated by the Port or operating under the ISGP, including Export Grain Terminal.

I. COLUMBIA RIVERKEEPER’S COMMITMENT TO PROTECTING A FISHABLE AND SWIMMABLE COLUMBIA RIVER.

Columbia Riverkeeper’s mission is to restore and protect the water quality of the Columbia River and all life connected to it, from the headwaters to the Pacific Ocean. Columbia Riverkeeper is a non-profit organization with members who live, recreate, and work throughout the Columbia River basin, including near and downstream of the Port.

Threats facing the Columbia River and its tributaries are severe by any measure. *See Columbia River Basin: State of the River Report for Toxics*, Environmental Protection Agency, Region 10 (Jan. 2009), https://www.epa.gov/sites/production/files/documents/columbia_state_of_the_river_report_jan2009.pdf. In fact, the vast majority of rivers and streams in Washington fail to meet basic state water quality standards for pollutants such as toxics and temperature. *See* Department of Ecology, Water Quality Assessment & 303(d) List, <https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d>. Water quality standards are designed to protect designated uses, including aquatic life, fishing, swimming, and drinking water.

Stormwater runoff is “one of the great challenges of water pollution control” and “is a principal contributor to water quality impairment of waterbodies nationwide.” *See* NATIONAL RESEARCH COUNCIL, URBAN STORM MANAGEMENT IN THE UNITED STATES (Oct. 15, 2008), http://www.epa.gov/npdes/pubs/nrc_stormwaterreport.pdf. When rain sends runoff across streets, construction projects, and industrial facilities, the water picks up contaminants that are drained into waterways such as the Columbia River and its tributaries. To address this leading cause of water quality impairment, Columbia Riverkeeper invests significant time and resources in reducing pollutant loads from industrial, municipal, and construction stormwater sources.

This Notice of Intent to Sue the Port of Longview is part of Columbia Riverkeeper’s effort to improve water quality in the Columbia River Basin for purposes including swimming, habitat quality, and subsistence, recreational, and commercial fishing. Columbia Riverkeeper has

serious concerns about the impacts of the Port's operations and industrial stormwater discharges on the Columbia River and its tributaries. As discussed below, the Port has habitually exceeded Permit benchmarks for turbidity, zinc, and copper, failed to meet Permit obligations triggered by such exceedances, failed to implement the Permit in its entire facility, failed to representatively sample its discharges and failed to adopt and implement a SWPPP that satisfies the requirements of the Permit, among other violations. The Port's operations and stormwater discharges degrade water quality in the Columbia River Basin and may contribute to conditions that place the health of those who use the Columbia and its tributaries at risk.

II. COMPLIANCE WITH STANDARDS.

Condition S10.A of the Permits prohibits discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington's efforts to protect clean water. Such standards represent the U.S. Environmental Protection Agency ("the EPA") and Ecology's determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the "beneficial uses" that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric criteria water quality standards. WASH. ADMIN. CODE §§ 173-201A-010, -510 ("No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter."). Narrative water quality standards provide legal mandates that supplement the numeric criteria. Furthermore, the narrative water quality standard applies with equal force even if Ecology has established a numeric water quality standard. Specifically, Condition S10.A of the Permits require that the Port's discharges not cause or contribute to an excursion of Washington State water quality standards.

The Port discharges into the Columbia River directly and via ditches, pipes, ponds, wharf openings and other discrete conveyances and features of the facility's stormwater system as well as via groundwater from infiltration ponds. The segment of the Columbia River into which the Port discharges does not meet water quality standards for bacteria and segments downstream do not meet water quality standards for dissolved oxygen. The Columbia River is included on the state's "303(d) list" of impaired water bodies. The Port discharges stormwater that contains elevated levels of turbidity, copper, and zinc as indicated in the table of benchmark excursions below. The Port also discharges elevated levels of fecal coliform, as indicated on its Discharge Monitoring Reports, including discharges that exceeded 100 CFU/100mL in the following calendar quarters: Q2 2014, Q3 2014, Q4 2014, Q2, 2015, Q4 2015, Q2 2016, Q3 2016, Q4 2016, Q1 2017, Q2 2017, Q3 2017, Q4 2017, Q3 2018, Q4 2018, Q1 2019, Q2 2019, Q3 2019 and Q4 2019. These discharges cause and/or contribute to violations of water quality standards for turbidity, copper, zinc, bacteria, dissolved oxygen and aesthetic values in the Columbia River and have occurred each and every day during the last five years on which there was 0.1 inch or more of precipitation, and continue to occur. *See* WASH. ADMIN. CODE §§ 173-201A-200 (fresh water designated uses and criteria), (1)(a)(b) (general criteria that apply to all aquatic life fresh water uses), 1(d) (dissolved oxygen criteria, 1(e) (turbidity criteria), 2(a) (general criteria applicable to fresh water recreational uses), 2(b) (bacteria criteria, (4) (miscellaneous uses

including wildlife habitat, harvesting commerce and navigation, boating, and aesthetics general criteria); § 173-201A-240 (toxic substances criteria for copper and zinc), § 173-201A-260 (natural conditions and other water quality criteria and applications); §§ 173-201A-600, -602 (use designations – fresh waters); § 173-201A-602 (designated for aquatic life use: core summer salmonid habitat; recreation use: primary contact recreation; water supply use: domestic, industrial, agricultural, stock, wildlife habitat; and miscellaneous uses: harvesting, commerce and navigation, boating, aesthetics). Precipitation data from that time period is appended to this notice of intent to sue and identifies these days.

Table 1: Benchmark Exceedances

Quarter in which sample collected (sample location)	Turbidity (Benchmark 25 NTU)	Zn Concentrations (Benchmark 117 µg/L)	Cu Concentration (Benchmark 14 µg/L)
1Q 2014 (001)	32 NTU	204 µg/L	
2Q 2014 (001)	258	160	17.5 µg/L
2Q 2014 (004)	40		
2Q 2014 (005)	728	1,090	15
3Q 2014 (001)	49	312	14.7
4Q 2014 (001)	43		
4Q 2014 (005)	580	938	24.4
1Q 2015 (001)	32		
1Q 2015 (005)	863	660	34.9
2Q 2015 (001)	42	172	
3Q 2015 (001)	189	264	21
3Q 2015 (004)	53		
1Q 2016 (001)		364	
2Q 2016 (001)	33	205	
2Q 2016 (003)	29		
3Q 2016 (001)	91		23.1
3Q 2016 (003)	38		
3Q 2016 (004)			22.7
4Q 2016 (001)	90	218	
1Q 2017 (001)	56	155	
3Q 2017 (001)	93		
3Q 2017 (003)	84		
3Q 2017 (004)	43		
4Q 2017 (001)	94.67	209.967	
4Q 2017 (003)	151.33		
4Q 2017 (004)	62.67		
1Q 2018 (001)	37		
2Q 2018 (001)	96	191	
2Q 2018 (004)	31		
3Q 2018 (001)	128	314	21.1
3Q 2018 (003)	26		
3Q 2018 (004)	47		
4Q 2018 (001)		139	
4Q 2019 (004)	26.2857		

Condition S10.C of the Permits require the Port to apply all known and reasonable methods of pollution prevention, control, and treatment (“AKART”) to all discharges, including preparing and implementing an adequate SWPPP and best management practices (“BMPs”). The

Port has violated and continues to violate this condition by failing to apply AKART to its discharges by, among other things, failing to implement an adequate SWPPP and BMPs. These violations have occurred on each and every day since Ecology issued the Port ISGP coverage and continue to occur every day.

Conditions S1.A of the Permits require that all discharges and activities authorized be consistent with the terms and conditions of the Permit. The Port has violated these conditions by discharging and acting inconsistent with the conditions of the Permit as described in this Notice of Intent to Sue.

III. STORMWATER POLLUTION PREVENTION PLAN VIOLATIONS.

The Port has not developed and implemented a SWPPP that complies with the requirements of the Permits. The violations of the Permits' SWPPP provisions described below have occurred each and every day since Ecology issued the Port ISGP coverage and are continuing.

Condition S3.A of the Permits require the Port to create and implement a SWPPP that is consistent with the Permits' requirements and to update the SWPPP as necessary to maintain compliance with the Permits' conditions. The Port is violating these conditions because the Port's SWPPP is not consistent with Permit requirements for a SWPPP, is not fully implemented, and has not been updated as necessary.

Condition S3.A.3.c of the 2020 Permit requires the Port's SWPPP to be updated and consistent with the 2020 ISGP by January 30, 2020. The Port has violated Condition S3.A.3.c by failing to timely update and certify the facility's SWPPP by January 30, 2020.

Condition S3.A.2 of the 2015 Permit and Condition S3.A.1 of the 2020 Permit require the SWPPP to specify BMPs necessary to provide AKART and to ensure discharges do not cause or contribute to a violation of water quality standards. The Port is in violation of these conditions because the Port has failed to prepare a SWPPP that provides AKART and does not provide BMPs necessary to ensure discharges do not cause or contribute to a violation of water quality standards.

The Port's SWPPP fails to satisfy the requirements of Condition S3 of the Permits because it does not adequately describe BMPs. Condition S3.B.4 of the Permits require that the SWPPP include a description of the BMPs that are necessary for the facility to eliminate or reduce the potential to contaminate stormwater. Condition S3.B.4 of the Permits also require that the SWPPP detail how and where the selected BMPs will be implemented. Condition S3.A.3 of the 2015 Permit and Condition S3.A.2 of the 2020 Permit require that the SWPPP include BMPs consistent with approved stormwater technical manuals (or document how stormwater BMPs included in the SWPPP are demonstratively equivalent to the practices contained in the approved stormwater technical manuals, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs). The applicable manual for the Port is WASHINGTON STATE DEPARTMENT OF ECOLOGY, PUB. NO. 19-10-021, STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (July 2019),

<https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMWW/Content/Resources/DocsForDownload/2019SWMMWW.pdf> (current stormwater management manual for Western Washington). Other stormwater management guidance documents applicable to the Facility under these conditions are found at <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Industrial-stormwater-permit> (see “Guidance and manuals”), including Ecology’s Vehicle and Equipment Washwater Discharges BMP Manual (<https://fortress.wa.gov/ecy/publications/documents/95056.pdf>) and Implementation Manual for Log Yards (<https://fortress.wa.gov/ecy/publications/documents/0410031.pdf>). The Port’s SWPPP does not comply with these requirements because it does not adequately describe and explain in detail the BMPs selected, does not include BMPs consistent with approved stormwater technical manuals, nor does it include BMPs that are demonstratively equivalent to approved BMPs with documentation of BMP adequacy.

The Port’s SWPPP fails to satisfy the requirements of Condition S3.B.1 of the Permits because it does not include a site map that identifies significant features, stormwater drainage and discharge structures, stormwater drainage areas for each stormwater discharge point off-site, a unique identifying number for each discharge point including discharges to ground, each sampling location with a unique identifying number, paved areas and buildings, areas of pollutant contact associated with specific industrial activities, conditionally approved non-stormwater discharges, surface water locations, areas of existing and potential soil erosion, vehicle maintenance areas, and lands and waters adjacent to the site that may be helpful in identifying discharge points or drainage routes.

The Port’s SWPPP fails to satisfy the requirements of Condition S3.B.2 of the Permits because it fails to include a facility assessment as mandated. The SWPPP fails to include an adequate facility assessment because it does not adequately describe the industrial activities conducted at the site, the general layout of the facility including buildings and storage of raw materials, the flow of goods and materials through the facility, the regular business hours, and the seasonal variations in business hours or industrial activities as required.

The Port’s SWPPP fails to comply with Condition S3.B.2.b of the Permits because it does not include an inventory of industrial activities that identifies all areas associated with industrial activities that have been or may potentially be sources of pollutants as required. The SWPPP does not identify all areas associated with loading and unloading of dry bulk materials or liquids; outdoor storage of materials or products; outdoor manufacturing and processing; onsite dust or particulate generating processes; on-site waste treatment, storage, or disposal; vehicle and equipment fueling, maintenance, and/or cleaning; roofs or other surfaces exposed to air emissions from a manufacturing building or a process area; and roofs or other surfaces composed of materials that may be mobilized by stormwater, as required by these Permit conditions.

The Port’s SWPPP does not comply with Condition S3.B.2.c of the Permits because it does not include an adequate inventory of materials. The SWPPP does not include: an inventory of materials that lists the types of materials handled at the site that potentially may be exposed to precipitation or runoff and that could result in stormwater pollution; a short narrative for each material describing the potential for pollutants to be present in stormwater discharge that is updated when data becomes available to verify the presence or absence of pollutants; or a

narrative description of any potential sources of pollutants from past activities, materials, and spills that were previously handled, treated, stored, or disposed of in a manner to allow ongoing exposure to stormwater, as required. The SWPPP also does not include the method and location of on-site storage or disposal of such materials and a list of significant spills and significant leaks of toxic or hazardous pollutants, as the Permits require.

The Port's SWPPP does not comply with Condition S3.B.3 of the Permits because it does not identify specific individuals by name or title whose responsibilities include SWPPP development, implementation, maintenance, and modification.

Condition S3.B.4 of the Permits require that permittees include in their SWPPPs, and implement, certain mandatory BMPs unless site conditions render the BMP unnecessary, infeasible, or an alternative and equally effective BMP is provided. The Port is in violation of these requirements because it has failed to include in its SWPPP, and implement, the mandatory BMPs required by the Permits.

The Port's SWPPP does not comply with Condition S3.B.4.b.i of the Permits because it does not include required operational source control BMPs in the following categories: good housekeeping (including definition of ongoing maintenance and cleanup of areas that may contribute pollutants to stormwater discharges, and a schedule/frequency for each housekeeping task); preventive maintenance (including BMPs to inspect and maintain stormwater drainage and treatment facilities, source controls, treatment systems, and plant equipment and systems, and the schedule/frequency for each task); spill prevention and emergency cleanup plan (including BMPs for preventing spills that can contaminate stormwater; for material handling procedures; storage requirements; cleanup equipment and procedures; and spill logs); employee training (including an overview of what is in the SWPPP, how employees make a difference in complying with the SWPPP, spill response procedures, good housekeeping, maintenance requirements, material management practices, how training will be conducted, the frequency/schedule of training, and a log of the dates on which specific employees received training); and inspections and recordkeeping (including documentation of procedures to ensure compliance with permit requirements for inspections and recordkeeping, identification of personnel who conduct inspections, provision of a tracking or follow-up procedure to ensure that a report is prepared and appropriate action taken in response to visual monitoring, definition of how the Port will comply with signature and record retention requirements, certification of compliance with the SWPPP and Permit, and all inspection reports completed by the Port).

The Port's SWPPP does not comply with Condition S3.B.4.b.i.7 of the Permits because it does not include measures to identify and eliminate the discharge of process wastewater, domestic wastewater, noncontact cooling water, and other illicit discharges to stormwater sewers, to surface waters, or to ground waters of the state.

The Port's SWPPP does not comply with Condition S3.B.4.b.ii of the Permits because it does not include required structural source control BMPs to minimize the exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and runoff. The Port's SWPPP does not comply with Condition S3.B.4.b.iii of the Permits because it does not include treatment BMPs as required.

The Port's SWPPP fails to comply with Condition S3.B.4.b.v of the Permits because it does not include BMPs to prevent the erosion of soils or other earthen materials and prevent off-site sedimentation and violations of water quality standards.

The Port's SWPPP fails to comply with Condition S3.B.4.b.i.5 of the Permits because it does not include the required records of employee training.

The Port's SWPPP does not comply with Condition S3.B.5 of the Permits because the SWPPP fails to include all of the minimum required details of the stormwater sampling plan. The SWPPP does not include a sampling plan that: identifies all points of discharge to surface waters, storm sewers, or discrete ground water infiltration locations; documents why any discharge point is not sampled; identifies each sampling point by its unique identifying number; identifies staff responsible for conducting stormwater sampling; specifies procedures for sample collection and handling; specifies procedures for sending samples to the a laboratory; identifies parameters for analysis, holding times and preservatives, laboratory quantization levels, and analytical methods; or specifies the procedure for submitting the results to Ecology.

The Port also discharges to a segment of the Columbia River that is 303(d) listed for bacteria impairment. Table 6, footnote i of the 2015 Permit and Table 6, footnote h of the 2020 Permit require that the Port's SWPPP incorporate and implement the following BMPs into the SWPPP: use all known, available and reasonable methods to prevent rodents, birds, and other animals from feeding/nesting/roosting at the facility; perform at least one annual dry weather inspection of the stormwater system to identify and eliminate sanitary sewer cross-connections; install structural source control BMPs to address on-site activities and sources that could cause bacterial contamination (e.g. dumpsters, compost piles, food waste, animal products); and implement operational source control BMPs to prevent bacterial contamination from any known sources of fecal coliform bacteria (e.g. animal waste). The Port has violated and continues to violate these conditions each and every day over the past five years because its SWPPP does not include these requirements and the Port has not implemented these requirements.

The Port has violated and continues to violate the Permit through its failure to create and implement a SWPPP in accordance with Permit requirements.

IV. ILLICIT AND PROHIBITED DISCHARGES.

Condition S5.E of the Permits prohibit the discharge of process wastewater (including stormwater that comingles with process wastewater) and illicit discharges. Appendix 2 to the Permits define "illicit discharges" as "any discharge that is not composed entirely of stormwater..." Permit Condition S5.F requires the Port to manage stormwater to prevent the discharge of synthetic, natural or processed oil or oil containing products as identified by an oil sheen, and trash and floating debris, prohibiting those discharges. The Facility engages in loading petroleum coke, grain and other bulk commodities to vessels docked at the Facility and unloading these same materials from vessels docked at the Facility to upland portions of the Facility. During these activities, petroleum coke, petroleum coke dust, grain, grain dust and other bulk commodities escape the Facility's loading and unloading system, and spill into the

Columbia River in violation of Condition S5.E of the Permits. These prohibited discharges occurred each and every day over the past five year the Port loaded or off-loaded ships with petroleum coke, grain or other bulk commodities and are reasonably likely to continue to occur.

Condition S7.B.3.b of the Permits require the Port to eliminate illicit discharges within 30 days of discovery, and Condition S3.B.4.b.i.7 of the Permits require the Port's SWPPP to include measures to identify and eliminate illicit discharges to surface waters. The Port violated and continues to violate these requirements by failing to eliminate its illicit discharges altogether since Ecology issued the Port ISGP coverage.

Additionally, Condition S7.B.3.a of the Permits require the Port to notify Ecology within seven days of any discovery of an illicit discharge. The Port violated and continues to violate these requirements by failing to notify Ecology about its illicit discharges within seven days of each occurrence since being granted ISGP coverage, including but not limited to its discharges of petroleum coke, petroleum coke dust, grain, grain dust and other bulk commodities.

Moreover, the Permits authorize only the discharges of stormwater and pollutants contained in stormwater. The Port does not possess and has never possessed an NPDES permit for its non-stormwater discharges of petroleum coke, petroleum coke dust, grain, grain dust, or other bulk commodities. Discharging these materials directly to the Columbia River from the facility conveyor systems, from mechanical loaders or cranes, and with shovels or hoses during wharf cleanup are all unpermitted point-source discharges of pollutants to surface waters that violate the Clean Water Act § 301(a), 33 U.S.C. §§ 1311(a), prohibition on pollutant discharges. These violations occurred and continue to occur each and every day over the past five years on which ship-loading or off-loading of these materials occurred at the Facility and are reasonably likely to continue to occur whenever petroleum coke, grain and other bulk commodity loading operations occur at the Facility going forward.

V. CORRECTIVE ACTION VIOLATIONS.

A. Failure to Implement Level One Corrective Actions.

Condition S8.B of the Permits require the Port take a specified action, called a "Level One Corrective Action," each time quarterly stormwater sample results exceed any of the benchmark values described in Conditions S5.A and S5.B of the Permits.

As described by Condition S8.B of the Permits, a Level One Corrective Action requires that the Port: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permit and contains the correct BMPs from the applicable Stormwater Management Manual; (2) make appropriate revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges and sign and certify the revised SWPPP in accordance with the Permit; and (3) summarize the Level One Corrective Action in the Annual Report required under Condition S9.B of the 2015 Permit and Condition S9.C of the 2020 Permit. Condition S8.B of the Permits require that the Port implement the revised SWPPP as soon as possible and no later than the DMR due date for the quarter the benchmark was exceeded.

Conditions S5.A and S5.B and Tables 2 and 3 of the Permits establish the following applicable benchmarks: turbidity 25 NTU; total copper 14 µg/L; total zinc 117 µg/L; and Petroleum Hydrocarbons (Diesel Fraction) 10 mg/L (for transportation facilities).

The Port violated the Level One Corrective Action requirements of the Permit described above by failing to conduct Level One Corrective Action in accordance with Permit conditions, including the required investigation, the required review, revision, and certification of the SWPPP, the required implementation of additional BMPs, and the required summarization in the annual report each and every time quarterly stormwater sampling results were greater than a benchmark over the past five years, including those identified in Table 1 above. The Port has violated Condition S8.B of the Permits by failing to implement Level One Corrective Actions for every benchmark exceedance since Ecology issued the Port ISGP coverage.

B. Failure to Implement Level Three Corrective Actions.

Condition S8.D of the Permits require the Port to take a specified action, called a “Level Three Corrective Action,” each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark value for any three quarters during a calendar year.

As described in Condition S8.D of the Permits, a Level Three Corrective Action requires the Port to (1) review the SWPPP for the facility and insure that it fully complies with Condition S3 of the Permits; (2) make appropriate revisions to the SWPPP to include additional treatment BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and additional operational and/or structural source control BMPs if necessary for proper function and maintenance of treatment BMPs, and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the 2015 Permit and Condition S3.A.5 of the 2020 Permit; and (3) summarize the Level Three Corrective Action (planned or taken) in the Annual Report required under Condition S9.B of the 2015 Permit and Condition S9.C of the 2020 Permit, including information on how monitoring, assessment, or evaluation information was (or will be) used to determine whether existing treatment BMPs will be modified/enhanced, or if new/additional treatment BMPs will be installed. Condition S8.D.2 of the Permits require that a Qualified Industrial Stormwater Professional review the revised SWPPP, sign its certification form, and certify that it is reasonably expected to meet benchmarks upon implementation.

Condition S8.D.3 of the Permits require that, before installing BMPs that require the site-specific design or sizing of structures, equipment, or processes to collect, convey, treat, reclaim, or dispose of industrial stormwater, that the Port submit an engineering report (including the alternatives considered and why the option was selected; design data; results expected; a statement that the proposed treatment is reasonably expected to meet the benchmarks, supported by sound engineering justification; and certification by a licensed professional engineer), and an operations and maintenance manual to Ecology for review. The engineering report must be submitted no later than the May 15 prior to the Level Three Corrective Action Deadline. The operations and maintenance manual must be submitted to Ecology no later than 30 days after construction/installation is complete.

Condition S8.D.5 of the Permits require the Port fully implement the revised SWPPP according to Condition S3 of the Permits and the applicable stormwater management manual as soon as possible, and no later than September 30th of the following year.

The Permit establishes the benchmarks applicable to the Port described in Section II of this notice of intent to sue letter.

The Port has violated and continues to violate Condition S8.D of the Permits by failing to conduct a Level Three Corrective Action in accordance with permit conditions, including: the required review, revision and certification of the SWPPP; the requirement to have a specified professional design and stamp the portion of the SWPPP pertaining to treatment; the required implementation of additional BMPs, including additional treatment BMPs; the required submission of an engineering report by September 30, 2019. As indicated in Table 1 above, the Port failed to fulfill these obligations for turbidity and zinc triggered by its stormwater sampling during calendar year 2018.

VI. VIOLATIONS OF MONITORING, REPORTING AND RECORDKEEPING REQUIREMENTS.

A. Failure to Collect Quarterly Samples

Condition S4.B of the Permits require the Port to collect representative samples of its stormwater discharge once during every calendar quarter. Conditions S3.B.5.b and S4.B.2.c of the Permits require the Port to collect stormwater samples at each distinct point of discharge offsite except for substantially identical outfalls, in which case only one of the substantially identical outfalls must be sampled. These conditions set forth sample collection criteria, but require the collection of a sample even if the criteria cannot be met. The Port has violated and continues to violate these conditions because it does not sample each distinct point of discharge off-site. For example, the Port does not sample the following discharge points, all of which are distinct and not substantially identical to any other discharge point that the Port samples: (1) discharges from the wharf at Berths 1 and 2, (2) discharges from the wharf at Berth 5, (3) discharges from the wharf at Berth 6, (4) discharges from the wharf at Berth 7, (5) discharges from the wharf at Berth 8, (6) discharges from the grain terminal wharf at Berth 9, (7) discharges from two or more locations in the upland grain terminal area, and (8) other locations that sometimes discharge to sanitary sewer but also discharges stormwater to the river at other times, depending on the position of a valve in the conveyance pipe. These violations have occurred and continue to occur each and every quarter during the last five years that the Port was and is required to sample its stormwater discharges, including the quarters in which it collected stormwater discharge samples from some, but not each, point of discharge. These violations will continue until the Port commences monitoring all distinct points of discharge.

B. Failure to Record Information.

Condition S4.B.3 of the 2015 Permit and Condition S4.B.4 of the 2020 Permit require the Port record and retain specified information for each stormwater sample taken, including the

sample date and time, a notation describing if the Port collected the sample within the first 12 hours of stormwater discharge event, an explanation of why the Port could not collect a sample within the first 12 hours of a stormwater discharge event, the sample location, method of sampling and of preservation, and the individual performing the sampling. The Port is in violation of these conditions as it has not recorded each of these specified items for each sample taken during the last five years.

C. Failure to Retain Records.

Condition S4 of the Permits, Condition S9.C of the 2015 Permit and Condition S9.D of the 2020 Permit require the Port to retain for a minimum of five years a copy of the current Permit, a copy of the Port's coverage letter, records of all sampling information and laboratory documentation, inspection reports including required documentation, any other documentation of compliance with permit requirements, all equipment calibration records, all BMP maintenance records, all original recordings for continuous sampling instrumentation, copies of all laboratory results, copies of all required reports, and records of all data used to complete the application for the Permit. The Port is in violation of these conditions because it has failed to retain records of such information, reports, and other documentation during the last five years.

D. Failure to Monitor, Report and Correct Discharge Monitoring Data.

The Port has violated and continues to violate the Permits' monitoring and reporting requirements. The violations of the Permits' monitoring and reporting provisions described below have occurred each and every day over the past five years and are reasonably likely to recur.

Condition S4.B.6.h of the 2015 Permit and Condition S4.B.1.f of the 2020 Permit require permittees to average monitoring results for each parameter when monitoring occurs more than once per quarter. If more than one sample is collected during a 24-hour period, the permittee must first calculate a daily average of individual grab sample results. The Permit then requires use of the daily average to calculate the quarterly average. The Port has violated this condition every time it has failed to calculate daily averages for samples taken within a 24-hour period, including but not limited to discharges identified in Table 1 above. The Port's monitoring point "001" discharge monitoring report ("DMR") data for the fourth quarter of 2019 and the Port's monitoring point "004" DMR data for the second quarter of 2020 were not calculated in accordance with the Permit. The monitoring point "001" DMR for the fourth quarter of 2019 utilizes two samples that were taken within a 24-hour period, from December 19 to December 20, 2019, but the Port did not first calculate a daily average of those two samples and then use that daily average to calculate the quarterly average. Had the Port calculated the daily average and then factored that number into the quarterly average in accordance with Permit requirements, the quarterly average would be 26.2857 NTU, a turbidity benchmark exceedance, not the 25 NTU reported for monitoring point "001" in quarter of 2019. And the monitoring point "004" DMR data for second quarter 2020 utilized two samples taking within a 24-hour period, from May 12 to May 13, 2020, but the Port did not first calculate a daily average of those two samples and then use that daily average to calculate the quarterly average. Had the Port calculated the

quarterly average correctly, it would be 28 NTU, another turbidity benchmark exceedance. These violations are reasonably likely to recur.

Where the Port becomes aware that it submitted incorrect information in any report to Ecology, Condition G20 of the Permits require the Port to promptly submit such facts or information to Ecology. The Port is in violation of this condition because it failed to promptly submit corrected DMRs and annual reports to Ecology after becoming aware that its reports were incorrect.

E. Failure to Analyze and Report Quarterly Samples.

Condition S5.A.1 of the Permits require the Port to analyze quarterly stormwater samples for turbidity, pH, total copper, total zinc, oil sheen, and Petroleum Hydrocarbons (Diesel Fraction). Because the Port discharges into 303(d)-listed impaired waterbody, in accordance with Condition S6 and Table 6 of the 2015 Permit, the Port was also required to analyze quarterly stormwater samples for fecal coliform bacteria and in accordance with Condition S6 and Table 6 of the 2020 Permit, the Port is required to analyze samples for *E. coli*. The Port violated these conditions by failing to analyze stormwater samples outfall 003 discharges for fecal coliform at all from the beginning of 2015 through the end of 2019. The Port also violated these conditions by failing to analyze any stormwater samples for *E. coli* in Q1 2020, and by failing to analyze stormwater samples for *E. coli* at outfalls 001 and 004 in Q2 2020.

Condition S4.B.1.b of the Permits further require the Port to sample the stormwater discharge from the first fall storm event each year, which is the first time on or after September 1st of each year that precipitation occurs and results in a stormwater discharge. Permit Condition S9.B requires the Port submit quarterly sampling data on a DMR to Ecology. The Port has failed to collect samples in the required timeframe after the first fall storm event for several parameters in violation of the 2015 Permit. To illustrate, the Port failed to collect fecal coliform at outfall 001 in the third quarter of 2015 after the first fall storm event due to human error. In the fourth quarter of 2019, the Port similarly failed to collect stormwater samples for copper and zinc after the first fall storm event. The Port has violated the Permit conditions each and every time the Port has failed to collect, analyze, and report stormwater samples after the first fall storm event, including but not limited to violations for fecal coliform in the third quarter of 2015 and copper and zinc in the fourth quarter of 2019. These violations are reasonably likely to recur.

F. Failure to Comply with Visual Monitoring Requirements.

Condition S7 of the Permits requires that monthly visual inspection be conducted at the Facility by qualified personnel. Each inspection is to include observations made at stormwater sampling locations and areas where stormwater associated with industrial activity is discharged, observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in the stormwater discharges, observations for the presence of illicit discharges, a verification that the descriptions of potential pollutant sources required by the permit are accurate, a verification that the site map in the SWPPP reflects current conditions, and an assessment of all BMPs that have been implemented (noting the effectiveness of the BMPs

inspected, the locations of BMPs that need maintenance, the reason maintenance is needed and a schedule for maintenance, and locations where additional or different BMPs are needed).

Condition S7.C of the Permits requires that the Port record the results of each inspection in an inspection report or checklist that is maintained on-site and that documents the observations, verifications, and assessments required. The report/checklist must include the time and date of the inspection, the locations inspected, a statement that, in the judgment of the person conducting the inspection and the responsible corporate officer, the Facility is either in compliance or out of compliance with the SWPPP and the Permits, a summary report and schedule of implementation of the remedial actions that the Port plans to take if the site inspection indicates that the facility is out of compliance, the name, title, signature and certification of the person conducting the facility inspection, and a certification and signature of the responsible corporate officer or a duly authorized representative.

The Port is in violation of these requirements of Condition S7 of the Permits because, during the last five years, it has failed to conduct each of the requisite visual monitoring and inspections, failed to prepare and maintain the requisite inspection reports or checklists, and failed to make the requisite certifications and summaries.

VII. FAILURE TO REPORT PERMIT VIOLATIONS.

Condition S9.E of the 2015 Permit and Condition S9.F of the 2020 Permit require the Port to take certain actions in the event the Port is unable to comply with any of the terms and conditions of the Permit which may endanger human health or the environment, or exceed any numeric effluent limitation in the permit. In such circumstances, the Port must immediately take action to minimize potential pollution or otherwise stop the noncompliance and correct the problem, and the Port must immediately notify the appropriate Ecology regional office of the failure to comply. The Port must then submit a detailed written report to Ecology, including specified details, within 5 days of the time the Port became aware of the circumstances unless Ecology requests an earlier submission.

The Port routinely violates these requirements, including each and every time the Port failed to comply with the corrective action requirements described in Section V of this notice of intent to sue, each and every time the Port failed to sample a discharge point, each and every time an illicit discharge of petroleum coke, petroleum coke dust, grain, grain dust or other bulk commodities occur, and each and every time the Port discharged stormwater with concentrations of pollutants in excess of the Permit benchmarks and water quality criteria described above. All these violations may endanger human health or the environment.

VIII. REQUEST FOR SWPPP.

Pursuant to Condition S9.G of the 2020 Permit, Columbia Riverkeeper hereby requests that the Port provide Riverkeeper a copy of, or access to, the Port's SWPPP complete with all incorporated plans, monitoring reports, checklists, and training and inspection logs within 14 days of receipt of this written notice. The copy of the SWPPP and any other communications about this request should be directed to the undersigned at the address below.

Should the Port fail to provide the requested complete copy of, or access to, its SWPPP, the Port will be in violation of 2020 Permit Condition S9.G. Failure to provide the SWPPP is a violation also subject to this Notice of Intent to Sue and any resulting lawsuit.

IX. ATTORNEYS REPRESENTING RIVERKEEPER.

In addition to the undersigned and Smith & Lowney PLLC, Columbia Riverkeeper is also represented by the following in this matter:

Simone Anter, Staff Attorney
Columbia Riverkeeper
407 Portway Ave, Suite 301
Hood River, OR 97031
(541) 399-5312
simone@columbiariverkeeper.org

X. CONCLUSION.

The above-described violations reflect those indicated by the information currently available to Columbia Riverkeeper. These violations are ongoing. Columbia Riverkeeper intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

Under Section 309(d) of the CWA, 33 U.S.C § 1319(d), the Port is subject to a separate daily penalty assessment for each violation (the current maximum daily penalty assessment is 37,500 per day for each violation that occurred through November 2, 2015 and \$55,800 for each violation thereafter). In addition to civil penalties, Columbia Riverkeeper will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the Clean Water Act, 33 U.S.C. § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the Clean Water Act, 33 U.S.C. § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Columbia Riverkeeper believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. Columbia Riverkeeper intends, at the close of the 60-day notice period, or shortly thereafter, to file a citizen suit against the Port under Section 505(a) of the Clean Water Act for the violations described herein.

Columbia Riverkeeper is willing to discuss effective remedies for the violations described in this letter and settlement terms during the 60-day notice period. If you wish to pursue such discussions in the absence of litigation, we suggest that you initiate those discussions within ten (10) days of receiving this notice so that a meeting can be arranged and so that negotiations may be completed promptly. We do not intend to delay the filing of a complaint if discussions are continuing when the notice period ends. If you believe that any of the

allegations in this notice are incorrect or based on incomplete information in the public record, please bring those facts to our attention.

Sincerely,

SMITH & LOWNEY, PLLC

s/Marc Zemel

cc: Andrew Wheeler, Administrator, U.S. EPA
Chris Hladick, Region 10 Administrator, U.S. EPA
Laura Watson, Director, Washington Department of Ecology
Port of Longview Commissioners: Jeff Wilson, Doug Averett and Allan Erickson

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
 These data are quality controlled and may not
 be identical to the original observations.

National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	07	01	92	57	91	0.00												
2015	07	02	91	60	89	0.00												
2015	07	03	89	60	82	0.00												
2015	07	04	82	57	81	0.00												
2015	07	05	90	56	89	0.00												
2015	07	06	91	59	83	0.00												
2015	07	07	83	59	80	0.00												
2015	07	08	82	57	81	0.00												
2015	07	09	81	60	71	0.00												
2015	07	10	71	57	71	0.06												
2015	07	11	71	61	69	0.00												
2015	07	12	78	61	77	0.00												
2015	07	13	78	58	78	0.00												
2015	07	14	78	59	76	0.00												
2015	07	15	76	55	74	0.00												
2015	07	16	75	60	73	0.00												
2015	07	17	83	53	83	0.00												
2015	07	18	95	55	94	0.00												
2015	07	19	94	59	78	0.00												
2015	07	20	78	63	75	0.00												
2015	07	21	75	59	72	0.00												
2015	07	22	72	56	66	0.00												
2015	07	23	76	55	73	0.00												
2015	07	24	76	50	73	0.00												
2015	07	25	73	58	69	0.08												
2015	07	26	71	56	69	0.06												
2015	07	27	72	51	71	0.00												
2015	07	28	84	49	83	0.00												
2015	07	29	93	54	93	0.00												
2015	07	30	100	55	100	0.00												
2015	07	31	100	56	91	0.00												
Summary			82	57		0.20		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	08	01	93	54	92	0.00												
2015	08	02	92	54	79	0.00												
2015	08	03	79	59	75	0.00												
2015	08	04	77	57	74	0.00												
2015	08	05	74	50	72	0.00												
2015	08	06	77	55	75	0.00												
2015	08	07	83	52	81	0.00												
2015	08	08	81	60	74	0.00												
2015	08	09	85	53	83	0.00												
2015	08	10	88	61	78	0.00												
2015	08	11	89	58	88	0.00												
2015	08	12	89	60	86	0.00												
2015	08	13	86	65	78	0.00												
2015	08	14	78	62	67	0.00												
2015	08	15	74	54	72	0.03												
2015	08	16	81	51	80	0.00												
2015	08	17	86	53	85	0.00												
2015	08	18	93	53	92	0.00												
2015	08	19	93	57	87	0.00												
2015	08	20	87	62	70	0.00												
2015	08	21	73	56	72	0.00												
2015	08	22	81	41	80	0.00												
2015	08	23	83	51	81	0.00												
2015	08	24	81	52	75	0.00												
2015	08	25	81	45	81	0.00												
2015	08	26	87	50	86	0.00												
2015	08	27	86	55	83	0.00												
2015	08	28	83	59	76	0.05												
2015	08	29	76	61	71	0.34												
2015	08	30	72	58	70	0.40												
2015	08	31	71	61	70	0.02												
Summary			83	55		0.84		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	09	01	71	62	68	0.00												
2015	09	02	69	56	68	0.04												
2015	09	03	68	43	62	0.24												
2015	09	04	66	45	64	T												
2015	09	05	67	45	65	0.00												
2015	09	06	65	49	59	0.17												
2015	09	07	78	51	76	0.00												
2015	09	08	76	52	75	0.00												
2015	09	09	77	59	76	0.00												
2015	09	10	83	55	82	0.00												
2015	09	11	90	55	89	0.00												
2015	09	12	89	59	78	0.00												
2015	09	13	78	58	67	0.00												
2015	09	14	68	45	63	0.00												
2015	09	15	64	57	62	0.00												
2015	09	16	70	52	69	0.02												
2015	09	17	69	56	68	0.22												
2015	09	18	76	49	73	0.00												
2015	09	19	75	49	71	0.00												
2015	09	20	75	60	71	0.00												
2015	09	21	73	48	65	0.00												
2015	09	22	68	39	68	0.00												
2015	09	23	70	39	68	0.00												
2015	09	24	76	41	75	0.00												
2015	09	25	76	56	60	0.16												
2015	09	26	68	48	64	0.00												
2015	09	27	67	39	67	0.00												
2015	09	28	75	46	75	0.00												
2015	09	29	79	41	79	0.00												
2015	09	30	80	53	67	0.00												
Summary			74	50		0.85		0.0										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	10	01	73	47	72	0.00												
2015	10	02	72	54	62	0.00												
2015	10	03	69	43	68	0.00												
2015	10	04	78	45	78	0.00												
2015	10	05	84	45	82	0.00												
2015	10	06	82	45	70	0.00												
2015	10	07	70	56	64	0.33												
2015	10	08	73	55	73	0.00												
2015	10	09	73	48	69	0.00												
2015	10	10	71	61	62	0.20												
2015	10	11	70	49	68	0.02												
2015	10	12	72	48	72	0.00												
2015	10	13	72	53	68	0.01												
2015	10	14	69	53	65	0.00												
2015	10	15	72	43	71	0.00												
2015	10	16	71	45	65	0.00												
2015	10	17	65	54	60	0.02												
2015	10	18	62	55	61	0.03												
2015	10	19	65	55	59	0.12												
2015	10	20	69	56	64	0.01												
2015	10	21	66	45	60	0.01												
2015	10	22	64	47	63	0.00												
2015	10	23	63	40	59	0.00												
2015	10	24	65	48	64	0.00												
2015	10	25	64	47	56	0.17												
2015	10	26	63	53	60	0.37												
2015	10	27	60	45	55	0.01												
2015	10	28	60	49	56	0.15												
2015	10	29	64	49	62	0.25												
2015	10	30	64	55	60	1.34												
2015	10	31	63	57	57	1.26												
Summary			69	50		4.30		0.0										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	11	01	61	52	56	0.59												
2015	11	02	59	44	59	0.36												
2015	11	03	59	40	52	0.06												
2015	11	04	52	36	47	0.00												
2015	11	05	52	44	51	0.02												
2015	11	06	60	41	58	0.14												
2015	11	07	58	43	52	0.17												
2015	11	08	55	47	51	0.20												
2015	11	09	56	46	52	0.02												
2015	11	10	52	39	47	0.00												
2015	11	11	51	41	47	0.31												
2015	11	12	47	39	46	0.13												
2015	11	13	55	39	55	0.71												
2015	11	14	57	47	56	1.33												
2015	11	15	57	41	45	0.35												
2015	11	16	46	34	44	0.11												
2015	11	17	60	44	55	2.05												
2015	11	18	55	35	47	0.21												
2015	11	19	49	42	47	0.32												
2015	11	20	47	31	43	0.01												
2015	11	21	48	28	46	0.00												
2015	11	22	47	25	43	0.00												
2015	11	23	45	28		0.00												
2015	11	24	42	34	42	0.57												
2015	11	25	47	31	42	0.00												
2015	11	26	48	23	43	0.00												
2015	11	27	48	22	45	0.00												
2015	11	28	45	21	43	0.00												
2015	11	29	45	20	45	0.00												
2015	11	30	45	22	37	0.00												
Summary			52	36		7.66		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2015	12	01	48	34	44	0.06												
2015	12	02	44	36	41	0.43												
2015	12	03	47	40	44	0.41												
2015	12	04	51	44	48	0.49												
2015	12	05	49	41	49	0.12												
2015	12	06	53	46	52	0.34												
2015	12	07	60	48	58	2.00												
2015	12	08	59	51	57	1.44												
2015	12	09	58	51	52	1.75												
2015	12	10	52	45	45	1.02												
2015	12	11	47	42	43	0.80												
2015	12	12	46	42	45	0.64												
2015	12	13	45	41	43	0.51												
2015	12	14	47	33	46	0.17												
2015	12	15	46	35	36	0.14												
2015	12	16	44	36	43	0.17												
2015	12	17	44	41	43	0.69												
2015	12	18	53	42	47	0.98												
2015	12	19	48	38	45	0.20												
2015	12	20	47	41	42	0.43												
2015	12	21	51	41	46	0.55												
2015	12	22	46	34	43	0.35												
2015	12	23	43	37	41	0.88												
2015	12	24	42	35	39	0.21												
2015	12	25	44	33	40	0.05												
2015	12	26	41	35	40	0.00												
2015	12	27	40	35	37	0.27												
2015	12	28	42	36	40	0.09												
2015	12	29	41	38	40	0.10												
2015	12	30	40	30	36	0.00												
2015	12	31	41	21	38	0.00												
Summary			47	39		15.29		0.0										

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*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
 These data are quality controlled and may not
 be identical to the original observations.

National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	01	01	45	23	40	0.00												
2016	01	02	42	24	39	0.00												
2016	01	03	39	20		0.06				1.0								
2016	01	04	36	31	36	0.32												
2016	01	05	40	34	38	0.11												
2016	01	06	45	30	41	0.00												
2016	01	07	46	30	46	0.00												
2016	01	08	47	34	43	0.00												
2016	01	09	49	32	46	0.05												
2016	01	10	51	28	49	0.00												
2016	01	11	49	28	44	0.09												
2016	01	12	46	34	44	0.30												
2016	01	13	50	43	49	0.92												
2016	01	14	50	38	46	0.17												
2016	01	15	49	42	48	0.10												
2016	01	16	52	43	50	0.39												
2016	01	17	50	43	49	0.41												
2016	01	18	52	45	51	0.05												
2016	01	19	52	44	46	0.49												
2016	01	20	51	43		0.25												
2016	01	21	53	43	51	0.55												
2016	01	22	56	47	51	0.34												
2016	01	23	51	43	48	0.15												
2016	01	24	50	38	50	0.03												
2016	01	25	58	40	57	0.00												
2016	01	26	57	47	52	T												
2016	01	27	56	48	54	0.03												
2016	01	28	55	49	54	0.83												
2016	01	29	54	43	47	0.41												
2016	01	30	47	39	41	0.60												
2016	01	31	45	35	41	0.03												
Summary			49	37		6.68		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	02	01	45	38	43	0.13												
2016	02	02	49	33	48	0.06												
2016	02	03	48	42	46	0.10												
2016	02	04	52	42	52	0.96												
2016	02	05	53	42	53	0.08												
2016	02	06	53	42	50	0.12												
2016	02	07	63	37	61	0.09												
2016	02	08	66	35	63	0.00												
2016	02	09	67	37	60	0.00												
2016	02	10	60	40	58	0.02												
2016	02	11	58	47	53	0.21												
2016	02	12	60	49	57	0.24												
2016	02	13	57	44	47	0.39												
2016	02	14	54	47	53	0.79												
2016	02	15	58	52	56	0.30												
2016	02	16	56	49	54	0.19												
2016	02	17	63	46	57	T												
2016	02	18	57	44	46	0.36												
2016	02	19	51	44	47	0.36												
2016	02	20	53	39	52	0.22												
2016	02	21	53	32	49	0.26												
2016	02	22	57	35	52	0.10												
2016	02	23	63	32	60	T												
2016	02	24	62	38	56	0.01												
2016	02	25	67	36	65	0.00												
2016	02	26	65	39	51	0.05												
2016	02	27	57	48	56	0.64												
2016	02	28	58	42	51	0.12												
2016	02	29	52	42	51	0.14												
Summary			57	41		5.94		0.0										

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"s" This data value failed one of NCDC's quality control tests.

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
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 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	03	01	56	44	54	0.53												
2016	03	02	56	44	52	0.29												
2016	03	03	62	50	61	0.19												
2016	03	04	61	41	53	0.01												
2016	03	05	65	47	50	0.09												
2016	03	06	53	42	52	0.69												
2016	03	07	52	41	50	0.39												
2016	03	08	53	36	43	0.12												
2016	03	09	50	42	50	0.26												
2016	03	10	55	47	55	0.56												
2016	03	11	57	36	53	0.05												
2016	03	12	53	42	45	0.34												
2016	03	13	53	42	49	0.62												
2016	03	14																
2016	03	15	50	39	47	0.34												
2016	03	16	54	41	53	0.02												
2016	03	17	62	32	62	0.00												
2016	03	18	66	33	66	0.00												
2016	03	19	70	45	69	0.02												
2016	03	20	69	50	57	0.14												
2016	03	21	57	47	53	0.13												
2016	03	22	58	44	53	0.14												
2016	03	23	54	45	52	0.09												
2016	03	24	52	43	52	0.46												
2016	03	25	53	43	52	0.07												
2016	03	26	61	39	61	0.00												
2016	03	27	61	43	53	0.36												
2016	03	28	57	35	55	0.01												
2016	03	29	65	34	65	0.00												
2016	03	30	74	36	74	0.00												
2016	03	31	79	39	79	0.00												
Summary			59	41		5.92		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	04	01	79	46	71	0.00												
2016	04	02	72	46	65	0.00												
2016	04	03	72	39	72	0.00												
2016	04	04	72	47	53	0.34												
2016	04	05	61	43	60	0.05												
2016	04	06	71	40	70	0.00												
2016	04	07	88	39	77	0.00												
2016	04	08	77	44	71	0.00												
2016	04	09	71	45	63	0.00												
2016	04	10	63	48	58	0.00												
2016	04	11	59	47	58	0.00												
2016	04	12	59	49	52	0.00												
2016	04	13	58	44	58	0.25												
2016	04	14	58	44	54	0.29												
2016	04	15	59	41	58	0.35												
2016	04	16	70	37	69	0.00												
2016	04	17	85	42	84	0.00												
2016	04	18	90	46	89	0.00												
2016	04	19	90	47	89	0.00												
2016	04	20	89	51	74	0.00												
2016	04	21	76	46	71	0.00												
2016	04	22	71	50	58	0.33												
2016	04	23	62	42	56	0.64												
2016	04	24	58	47	54	0.14												
2016	04	25	60	36	58	0.02												
2016	04	26	60	35	58	0.00												
2016	04	27	63	45	58	0.03												
2016	04	28	63	42	59	0.00												
2016	04	29	60	48	57	0.29												
2016	04	30	70	38	68	0.36												
Summary			70	44		3.09		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	05	01	81	42	80	0.00												
2016	05	02	87	47	78	0.00												
2016	05	03	78	55	65	0.00												
2016	05	04	65	51	60	0.02												
2016	05	05	71	50	70	0.00												
2016	05	06	81	46	80	0.00												
2016	05	07	80	49	75	0.00				7.0s								
2016	05	08	75	50	65	0.00												
2016	05	09	70	48	68	0.00												
2016	05	10	78	40	77	0.00												
2016	05	11	84	44	84	0.00												
2016	05	12	85	48	76	0.00												
2016	05	13	82	45	75	0.00												
2016	05	14	75	50	55	0.02												
2016	05	15	56	51	55	0.47												
2016	05	16	58	53	57	0.08												
2016	05	17	74	51	71	0.00												
2016	05	18	72	51	61	0.00												
2016	05	19	62	48	54	0.33												
2016	05	20	68	54	65	0.00												
2016	05	21	68	50	56	0.08												
2016	05	22	63	51	58	0.19												
2016	05	23	69	51	68	0.02												
2016	05	24	70	51	64	0.02												
2016	05	25	67	50	63	0.00												
2016	05	26	64	51	57	0.00												
2016	05	27	63	49	60	0.11												
2016	05	28	67	48	66	0.02												
2016	05	29	68	49	66	0.00												
2016	05	30	75	42	74	0.00												
2016	05	31	88	45	86	0.00												
Summary			72	49		1.36		0.0										

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Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	06	01	88	53	73	0.00												
2016	06	02	73	56	68	0.21												
2016	06	03	85	53	85	0.00												
2016	06	04	92	62	92	0.00												
2016	06	05	92	53	90	0.00												
2016	06	06	90	55	85	0.00												
2016	06	07	85	51	81	0.00												
2016	06	08	81	55	67	0.00												
2016	06	09	67	52	60	0.02												
2016	06	10	62	46	55	0.18												
2016	06	11	68	47	65	0.05												
2016	06	12	74	43	73	0.00												
2016	06	13	74	48	55	0.06												
2016	06	14	60	47	53	0.27												
2016	06	15	59	47	54	0.36												
2016	06	16	65	45	56	0.04												
2016	06	17	67	45	67	0.01												
2016	06	18	68	49	62	0.03												
2016	06	19	76	43	74	0.00												
2016	06	20	77	56	71	0.00												
2016	06	21	74	54	71	0.06												
2016	06	22	76	49	75	0.00												
2016	06	23	75	49	63	0.30												
2016	06	24	73	51	65	0.18												
2016	06	25	76	52	76	0.00												
2016	06	26	85	52	85	0.00												
2016	06	27	85	58	76	0.00												
2016	06	28	76	55	71	0.00												
2016	06	29	72	55	71	0.00												
2016	06	30	75	53	72	0.00												
Summary			76	51		1.77		0.0										

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 Station: **LONGVIEW, WA US USC00454769**

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 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	07	01	78	52	77	0.00												
2016	07	02	78	59	73	0.00												
2016	07	03	74	57	71	0.00												
2016	07	04	71	52	67	0.00												
2016	07	05	72	50	70	0.00												
2016	07	06	77	51	77	0.00												
2016	07	07	77	55	64	0.02												
2016	07	08	70	54	66	0.20												
2016	07	09	70	56	69	0.27												
2016	07	10	74	57	71	0.04												
2016	07	11	74	55	70	0.01												
2016	07	12	75	55	67	0.00												
2016	07	13	77	55	75	0.00												
2016	07	14	78	50	76	0.00												
2016	07	15	76	48	73	0.00												
2016	07	16	73	54	71	0.00												
2016	07	17	72	57	72	0.00												
2016	07	18	74	60	69	0.00												
2016	07	19	76	57	72	0.00												
2016	07	20	83	53	82	0.00												
2016	07	21	82	55	76	0.00												
2016	07	22	76	61	69	0.00												
2016	07	23	71	58	71	0.03												
2016	07	24	86	51	85	0.00												
2016	07	25	87	60	80	0.00												
2016	07	26	80	58	76	0.00												
2016	07	27	83	57	82	0.00												
2016	07	28	88	58	88	0.00												
2016	07	29	90	59	83	0.00												
2016	07	30	83	58	71	0.00												
2016	07	31	73	55	72	0.00												
Summary			77	55		0.57		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	08	01	73	50	73	0.00		0.0		0.0								
2016	08	02	74	57	70	0.05		0.0		0.0								
2016	08	03	78	56	77	0.00		0.0		0.0								
2016	08	04	87	51	86	0.00		0.0		0.0								
2016	08	05	86	55	76	0.00		0.0		0.0								
2016	08	06	76	51	72	0.00		0.0		0.0								
2016	08	07	72	49	69	0.02		0.0		0.0								
2016	08	08	71	54	69	0.11		0.0		0.0								
2016	08	09	70	52	68	0.10		0.0		0.0								
2016	08	10	80	59	78	0.00		0.0		0.0								
2016	08	11	87	55	86	0.00		0.0		0.0								
2016	08	12	96	55	94	0.00		0.0		0.0								
2016	08	13	94	59	85	0.00		0.0		0.0								
2016	08	14	85	56	78	0.00		0.0		0.0								
2016	08	15	80	57	76	0.00		0.0		0.0								
2016	08	16	82	58	78	0.00		0.0		0.0								
2016	08	17	79	57	77	0.00		0.0		0.0								
2016	08	18	96	55	95	0.00		0.0		0.0								
2016	08	19	100	56	99	0.00		0.0		0.0								
2016	08	20	99	55	88	0.00		0.0		0.0								
2016	08	21	88	58	70	0.00		0.0		0.0								
2016	08	22	73	45	71	0.00		0.0		0.0								
2016	08	23	84	48	82	0.00		0.0		0.0								
2016	08	24	91	50	89	0.00		0.0		0.0								
2016	08	25	95	53	92	0.00		0.0		0.0								
2016	08	26	97	53	94	0.00		0.0		0.0								
2016	08	27	94	61	69	0.00		0.0		0.0								
2016	08	28	81	55	81	0.00		0.0		0.0								
2016	08	29	82	53	79	0.00		0.0		0.0								
2016	08	30	80	52	70	0.00		0.0		0.0								
2016	08	31	72	57	63	0.52		0.0		0.0								
Summary			84	54		0.80		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	09	01	66	55	61	0.37												
2016	09	02	70	56	69	0.31												
2016	09	03	71	48	69	0.54												
2016	09	04																
2016	09	05																
2016	09	06	68	48	65	0.50												
2016	09	07	71	57	71	0.02												
2016	09	08	72	58	71	0.00												
2016	09	09	79	46	78	0.00												
2016	09	10	81	47	79	0.00												
2016	09	11	79	47	67	0.00												
2016	09	12	78	43	76	0.00												
2016	09	13	80	41	79	0.00												
2016	09	14	79	42	74	0.00												
2016	09	15	77	52	76	0.00												
2016	09	16	77	52	75	0.00												
2016	09	17	75	57	61	0.53												
2016	09	18	71	56	71	0.05												
2016	09	19	71	49	68	0.08												
2016	09	20	70	45	65	0.05												
2016	09	21	71	43	70	0.00												
2016	09	22	72	45	66	0.00												
2016	09	23	66	46	56	0.08												
2016	09	24	68	46	67	0.04												
2016	09	25	81	47	81	0.00												
2016	09	26	84	55	80	0.00												
2016	09	27	80	58	71	0.00												
2016	09	28	72	47	71	0.00												
2016	09	29	71	41	67	0.00												
2016	09	30	68	43	66	0.00												
Summary			74	49		2.57		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation Time	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	10	01	66	50	57	0.12												
2016	10	02	61	50	60	0.45												
2016	10	03	61	51	56	0.01												
2016	10	04	60	52	60	0.19												
2016	10	05	61	54	56	0.22												
2016	10	06	60	53	58	0.40												
2016	10	07	62	53	60	0.44												
2016	10	08	65	53	64	0.12												
2016	10	09	64	53	54	0.52												
2016	10	10	60	42	58	0.56												
2016	10	11	66	34	66	0.00												
2016	10	12																
2016	10	13	60	52	58	0.56												
2016	10	14	63	53	57	1.21												
2016	10	15	60	51	58	0.79												
2016	10	16	59	52	54	0.61												
2016	10	17	63	51	58	0.63												
2016	10	18	59	50	56	0.33												
2016	10	19	58	45	57	0.04												
2016	10	20	61	53	60	0.59												
2016	10	21	61	47	59	0.00												
2016	10	22	64	50	62	0.02												
2016	10	23	62	51	61	0.12												
2016	10	24	61	46	53	0.06												
2016	10	25	60	52	59	0.03												
2016	10	26	61	48	61	0.35												
2016	10	27	61	54	55	0.06												
2016	10	28	66	49	66	0.01												
2016	10	29	66	47	62	0.02												
2016	10	30	62	40	58	0.12												
2016	10	31	58	48	58	0.33												
Summary			62	49		8.91		0.0										

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U.S. Department of Commerce
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 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
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**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	11	01	59	50	58	0.15												
2016	11	02	61	51	58	0.04												
2016	11	03	66	41	65	0.10												
2016	11	04	65	44	65	0.02												
2016	11	05	65	54	56	0.37												
2016	11	06	59	49	58	0.47												
2016	11	07	62	49	61	0.05												
2016	11	08	68	41	64	0.01												
2016	11	09	64	47	62	0.02												
2016	11	10	65	48	61	0.02												
2016	11	11	61	49	56	0.00												
2016	11	12	60	48	56	0.16												
2016	11	13	57	43	55	0.08												
2016	11	14	58	52	55	0.53												
2016	11	15	59	48	49	0.82												
2016	11	16	51	41	46	0.53												
2016	11	17	52	43	48	0.12												
2016	11	18	55	35	55	0.08												
2016	11	19	55	41	54	0.02												
2016	11	20	55	47	55	0.05												
2016	11	21	55	45	52	0.15												
2016	11	22	52	41	48	0.20												
2016	11	23	50	44	47	0.45												
2016	11	24	49	46	47	0.94												
2016	11	25	49	44	49	0.94												
2016	11	26	50	38		0.67												
2016	11	27	47	42	46	0.03												
2016	11	28	52	42	48	0.45												
2016	11	29	50	40	49	0.07												
2016	11	30	50	42	44	0.48												
Summary			57	45		8.02		0.0										

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 National Environmental Satellite, Data, and Information Service
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 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2016	12	01	45	36	45	0.10												
2016	12	02	46	44	44	0.15												
2016	12	03	49	38	47	0.19												
2016	12	04	48	41	43	0.84												
2016	12	05	43	35	37	0.40												
2016	12	06	39	32	37	0.12												
2016	12	07	39	24	35	0.05												
2016	12	08	36	24	31	0.25		2.5		3.0								
2016	12	09	36	31	35	0.16												
2016	12	10	40	34	39	0.46												
2016	12	11	45	38	40	0.59												
2016	12	12	44	36	43	0.54												
2016	12	13	43	31	34	0.00												
2016	12	14	34	29	32	0.01												
2016	12	15	32	26	32	0.22		2.5		3.0								
2016	12	16	34	28	32	0.00												
2016	12	17	32	20	32	0.00												
2016	12	18	35	23	33	0.02												
2016	12	19	41	30	41	0.23												
2016	12	20	51	41	47	0.90												
2016	12	21	47	30	35	0.05												
2016	12	22	39	30	39	0.02												
2016	12	23	45	36	41	0.20												
2016	12	24	41	32	37	0.03												
2016	12	25	43	34	41	0.00												
2016	12	26	41	32	38	0.04												
2016	12	27	44	35	42	0.74												
2016	12	28	44	35	42	0.12												
2016	12	29	46	33	42	0.00												
2016	12	30	43	34	40	0.10												
2016	12	31	40	28	34	0.10												
Summary			41	32		6.63		5.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	01	01	37	32	36	0.72												
2017	01	02	36	31	33	0.02												
2017	01	03	35	20	33	0.00												
2017	01	04	38	22	36	0.00												
2017	01	05	36	13	32	0.00												
2017	01	06	34	15	33	0.00												
2017	01	07	33	18	31	0.00												
2017	01	08	39	30	37	0.16												
2017	01	09	39	32	37	0.20												
2017	01	10	42	37	39	0.04												
2017	01	11	39	30	30	0.72				5.0								
2017	01	12	32	21	32	0.00												
2017	01	13	32	22	28	0.00												
2017	01	14	32	16	30	0.00												
2017	01	15	32	17	32	0.00												
2017	01	16	33	24	31	0.00												
2017	01	17	36	28	34	0.24												
2017	01	18	50	33	43	0.96												
2017	01	19	49	39	49	0.25												
2017	01	20	49	32	43	0.07												
2017	01	21	46	36	43	0.08												
2017	01	22	49	36	48	0.08												
2017	01	23	52	29	49	0.01												
2017	01	24	49	26	41	0.00												
2017	01	25	46	38	41	0.00												
2017	01	26	48	31	46	0.01												
2017	01	27	47	31	46	0.00												
2017	01	28	47	33	45	0.00												
2017	01	29																
2017	01	30	47	35	46	0.02												
2017	01	31	48	39	45	0.00												
Summary			41	28		3.58		0.0										

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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	02	01	45	26	42	0.00												
2017	02	02	46	27	42	0.00												
2017	02	03	42	31	38	0.13												
2017	02	04	51	34	45	0.41												
2017	02	05	45	32	32	1.19				1.0								
2017	02	06	41	31	38	0.84												
2017	02	07	40	32	40	0.05												
2017	02	08	42	36	41	0.61												
2017	02	09	59	39	53	1.15												
2017	02	10	53	43	44	0.14												
2017	02	11	51	33	50	0.12												
2017	02	12	51	30	50	0.03												
2017	02	13	59	29	59	0.00												
2017	02	14	59	29	51	0.00												
2017	02	15	51	41	50	0.62												
2017	02	16	54	48	49	0.87												
2017	02	17	55	42	53	0.05												
2017	02	18	53	43	47	0.20												
2017	02	19	47	42	45	0.51												
2017	02	20	48	42	47	0.37												
2017	02	21	52	41	49	0.13												
2017	02	22	49	33	43	0.08												
2017	02	23	47	31	45	0.04												
2017	02	24	45	28	42	0.05												
2017	02	25	49	29	48	0.00												
2017	02	26	48	37	41	0.14												
2017	02	27	42	35	41	0.16												
2017	02	28	49	32	42	0.22												
Summary			49	35		8.11		0.0										

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	03	01	53	42	51	0.11												
2017	03	02	51	41	47	0.04												
2017	03	03	51	42	46	0.22												
2017	03	04	48	33	40	0.43												
2017	03	05	46	36	42	0.07												
2017	03	06	44	33	44	0.68												
2017	03	07	45	37	45	0.41												
2017	03	08	47	40	43	0.22												
2017	03	09	53	41	53	0.77												
2017	03	10	56	45	53	0.35												
2017	03	11	56	38	56	0.26												
2017	03	12	59	44	48	0.02												
2017	03	13	54	48	53	0.68												
2017	03	14	60	50	57	0.44												
2017	03	15	57	46	55	1.36												
2017	03	16	57	33	55	0.00												
2017	03	17	55	35	47	0.33												
2017	03	18	54	46	48	0.46												
2017	03	19	55	31	54	0.01												
2017	03	20	54	37	51	0.02												
2017	03	21	59	43	58	0.16												
2017	03	22	59	46	52	0.17												
2017	03	23	55	43	55	0.03												
2017	03	24	55	44	51	0.31												
2017	03	25	52	43	49	0.12												
2017	03	26	49	42	49	0.22												
2017	03	27	54	45	48	0.20												
2017	03	28	55	45	54	0.10												
2017	03	29	59	45	56	0.40												
2017	03	30	56	42	54	0.05												
2017	03	31	59	41	59	0.00												
Summary			54	41		8.64		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
 These data are quality controlled and may not
 be identical to the original observations.

National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	04	01	59	48	57	0.04												
2017	04	02	58	38	54	0.01												
2017	04	03	59	33	58	T												
2017	04	04	58	42	55	0.00												
2017	04	05	55	47	52	0.28												
2017	04	06	59	45	59	0.21												
2017	04	07	59	49	51	0.47												
2017	04	08	54	41	50	0.22												
2017	04	09	56	39	55	0.05												
2017	04	10	56	41	52	0.14												
2017	04	11	61	35	61	0.02												
2017	04	12	61	46	52	0.49												
2017	04	13	56	44	52	0.43												
2017	04	14	55	42	49	0.21												
2017	04	15	60	38	58	0.11												
2017	04	16	67	38	67	0.00												
2017	04	17	67	42	56	0.12												
2017	04	18	62	49	60	0.15												
2017	04	19	62	43	55	0.13												
2017	04	20	56	46	55	0.48												
2017	04	21	71	38	71	0.03												
2017	04	22	71	43	60	0.33												
2017	04	23	60	44	53	0.12												
2017	04	24	54	44	51	0.80												
2017	04	25	53	43	51	0.28												
2017	04	26	59	48	55	0.07												
2017	04	27	56	39	53	0.22												
2017	04	28	59	38	55	0.02												
2017	04	29	61	37	61	0.00												
2017	04	30	61	37	56	0.38												
Summary			60	42		5.81		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	05	01	57	38	52	0.03												
2017	05	02	61	48	59	0.05												
2017	05	03	82	56	81	0.10												
2017	05	04	81	54	64	0.04												
2017	05	05	64	53	57	0.25												
2017	05	06	60	37	58	0.05												
2017	05	07	65	37	64	0.00												
2017	05	08	70	40	70	0.00												
2017	05	09	74	42	73	0.00												
2017	05	10	73	45	70	0.00												
2017	05	11	70	51	55	0.34												
2017	05	12	58	45	52	0.04												
2017	05	13	54	46	51	0.10												
2017	05	14	59	47	48	0.21												
2017	05	15	53	42	51	0.21												
2017	05	16	53	44	47	0.91												
2017	05	17	58	44	56	0.04												
2017	05	18	70	40	69	0.00												
2017	05	19	73	51	73	0.00												
2017	05	20	74	53	71	0.00												
2017	05	21	83	50	82	0.00												
2017	05	22	88	53	88	0.00												
2017	05	23	88	55	70	0.00												
2017	05	24	70	49	60	0.00												
2017	05	25	73	43	73	0.00												
2017	05	26	84	46	83	0.00												
2017	05	27	84	48	82	0.00												
2017	05	28	82	53	72	0.00												
2017	05	29	72	52	68	0.00												
2017	05	30	68	52	59	0.00												
2017	05	31	72	50	70	0.00												
Summary			70	47		2.37		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	06	01	70	54	61	0.00												
2017	06	02	75	53	73	0.00												
2017	06	03	73	55	66	0.00												
2017	06	04	69	47	66	0.00												
2017	06	05	77	40	76	0.00												
2017	06	06	84	47	78	0.00												
2017	06	07	78	47	71	0.00												
2017	06	08	71	47	59	0.21												
2017	06	09	62	50	58	0.15												
2017	06	10	64	47	60	0.08												
2017	06	11	70	47	66	0.08												
2017	06	12	67	48	58	0.01												
2017	06	13	63	51	62	0.07												
2017	06	14	64	43	63	0.00												
2017	06	15	63	52	60	0.30												
2017	06	16	61	55	58	0.35												
2017	06	17	69	52	68	0.03												
2017	06	18	75	54	74	0.11												
2017	06	19	83	59	81	0.00												
2017	06	20	81	59	71	0.00												
2017	06	21	74	55	74	0.00												
2017	06	22	80	47	80	0.00												
2017	06	23	86	48	86	0.00												
2017	06	24	95	54	95	0.00												
2017	06	25	95	55	88	0.00												
2017	06	26	88	54	71	0.00												
2017	06	27	75	55	73	0.00												
2017	06	28	75	55	66	0.00												
2017	06	29	79	55	79	0.00												
2017	06	30	79	56	71	0.00												
Summary			75	51		1.39		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	07	01	74	55	72	0.00												
2017	07	02	79	52	77	0.00												
2017	07	03	78	56	75	0.00												
2017	07	04	83	50	81	0.00												
2017	07	05	89	50	86	0.00												
2017	07	06	86	53	81	0.00												
2017	07	07	81	53	71	0.00												
2017	07	08	84	46	83	0.00												
2017	07	09	83	47	77	0.00												
2017	07	10	77	52	75	0.00												
2017	07	11	76	46	74	0.00												
2017	07	12	79	49	77	0.00												
2017	07	13	77	55	73	0.00												
2017	07	14	84	48	82	0.00												
2017	07	15	82	49	73	0.00												
2017	07	16	74	46	71	0.00												
2017	07	17	79	47	77	0.00												
2017	07	18	82	47	78	0.00												
2017	07	19																
2017	07	20	70	50	69	0.05												
2017	07	21	81	49		0.00												
2017	07	22	88	56	85	0.00												
2017	07	23	85	57	79	0.00												
2017	07	24	87	54	85	0.00												
2017	07	25	86	56	83	0.00												
2017	07	26	85	57	77	0.00												
2017	07	27	78	58	73	0.00												
2017	07	28	77	48	75	0.00												
2017	07	29	83	50	82	0.00												
2017	07	30	84	56	84	0.00												
2017	07	31	90	54	88	0.00												
Summary			81	52		0.05		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	08	01	95	52	94	0.00												
2017	08	02	98	57	98	0.00												
2017	08	03	101	60	100	0.00												
2017	08	04	100	59	84	0.00												
2017	08	05	85	59	82	0.00												
2017	08	06	85	58	81	0.00												
2017	08	07	82	60	78	0.00												
2017	08	08	82	60	81	0.00												
2017	08	09	82	59	80	0.00												
2017	08	10	81	57	77	0.00												
2017	08	11	78	59	74	0.00												
2017	08	12	79	58	76	0.00												
2017	08	13	77	60	73	0.19												
2017	08	14	75	47	73	0.00												
2017	08	15	81	49	81	0.00												
2017	08	16	81	51	76	0.00												
2017	08	17	76	58	65	0.00												
2017	08	18	77	50	76	0.00												
2017	08	19	78	52	77	0.00												
2017	08	20	77	49	75	0.00												
2017	08	21	87	53	86	0.00												
2017	08	22	87	54	78	0.00												
2017	08	23	79	58	75	0.00												
2017	08	24	76	48	75	0.00												
2017	08	25	80	51	77	0.00												
2017	08	26	88	49	88	0.00												
2017	08	27	94	54	93	0.00												
2017	08	28	99	54	99	0.00												
2017	08	29	99	59	77	0.00												
2017	08	30	79	53	75	0.00												
2017	08	31	80	60	79	0.00												
Summary			84	55		0.19		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	09	01	89	51	89	0.00												
2017	09	02	96	51	95	0.00												
2017	09	03	95	55	95	0.00												
2017	09	04	95	55	92	0.00												
2017	09	05	92	61	88	0.00												
2017	09	06	88	57	79	0.00												
2017	09	07	80	60	75	0.00												
2017	09	08	75	60	69	T												
2017	09	09	75	57	68	0.00												
2017	09	10	78	55	77	0.00												
2017	09	11	89	48	89	0.00												
2017	09	12	89	54	76	0.00												
2017	09	13	77	42	70	0.00												
2017	09	14	76	50	75	0.00												
2017	09	15	80	40	78	0.00												
2017	09	16	79	46	76	0.00												
2017	09	17	76	50	60	0.05												
2017	09	18	61	48	58	0.24												
2017	09	19	66	51	65	0.68												
2017	09	20	65	48	58	1.36												
2017	09	21	62	45	61	0.00												
2017	09	22	69	45	66	0.00												
2017	09	23	70	48	68	0.00												
2017	09	24	73	45	72	0.00												
2017	09	25	74	53	65	0.01												
2017	09	26	78	52	77	0.00												
2017	09	27	86	50	85	0.00												
2017	09	28	86	47	86	0.00												
2017	09	29	86	54	68	0.17												
2017	09	30	68	46	65	0.05												
Summary			79	51		2.56		0.0										

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Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	10	01	65	49	64	0.16												
2017	10	02	65	47	62	0.00												
2017	10	03	69	43	69	0.00												
2017	10	04	72	36	71	0.00												
2017	10	05	74	36	74	0.00												
2017	10	06	74	37	63	0.00												
2017	10	07	64	46	62	0.05												
2017	10	08	64	44	63	0.00												
2017	10	09	66	38	64	0.00												
2017	10	10	65	38	55	0.05												
2017	10	11	59	37	52	0.18												
2017	10	12	56	46	55	0.60												
2017	10	13	59	39	57	0.07												
2017	10	14	60	31	60	0.00												
2017	10	15	67	35	67	0.00												
2017	10	16	67	40	63	0.01												
2017	10	17	63	42	56	0.13												
2017	10	18	62	44	62	0.06												
2017	10	19	62	53	55	1.34												
2017	10	20	55	44	54	0.46												
2017	10	21	54	45	54	0.83												
2017	10	22	63	47	55	2.30												
2017	10	23	66	44	66	0.15												
2017	10	24	67	41	66	0.00												
2017	10	25	66	40	58	0.03												
2017	10	26	60	49	60	0.05												
2017	10	27	68	40	68	0.00												
2017	10	28	72	41	68	0.00												
2017	10	29	68	50	54	0.00												
2017	10	30	63	40	63	0.01												
2017	10	31	63	31	61	0.00												
Summary			64	42		6.48		0.0										

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Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	11	01	61	47	52	0.09												
2017	11	02	54	45	48	0.30												
2017	11	03	49	39	48	0.12												
2017	11	04	48	37	44	0.31												
2017	11	05	47	37	40	0.72												
2017	11	06	49	37	47	0.00												
2017	11	07	49	29	48	0.00												
2017	11	08	48	36	46	0.16												
2017	11	09	52	41	51	0.21												
2017	11	10	52	41	48	0.29												
2017	11	11	55	47	53	0.02												
2017	11	12	56	48	55	0.05												
2017	11	13	55	47	49	0.71												
2017	11	14	55	44	53	0.30												
2017	11	15	53	44	46	0.53												
2017	11	16	52	42	44	0.35												
2017	11	17	50	39	46	0.29												
2017	11	18	52	40	49	0.02												
2017	11	19	49	35	47	0.00												
2017	11	20	54	45	48	0.60												
2017	11	21	57	36	56	0.53												
2017	11	22	64	52	62	0.12												
2017	11	23	63	53	53	0.90												
2017	11	24	54	41	52	0.05												
2017	11	25	52	41	46	0.08												
2017	11	26	53	43	47	0.48												
2017	11	27	49	36	47	0.14												
2017	11	28	47	43	44	0.58												
2017	11	29	49	38	47	0.09												
2017	11	30	47	37	44	0.11												
Summary			53	41		8.15		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
These data are quality controlled and may not
be identical to the original observations.

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	12	01	48	42	47	0.01												
2017	12	02	47	43	43	0.51												
2017	12	03	48	35	46	0.15												
2017	12	04	46	36	39	0.01												
2017	12	05	44	35	42	0.00												
2017	12	06	50	31	47	T												
2017	12	07	52	24	44	0.00												
2017	12	08	54	24	54	0.00												
2017	12	09	54	25	47	0.00												
2017	12	10	47	24	40	0.00												
2017	12	11	49	22	42	0.00												
2017	12	12	43	24	41	0.00												
2017	12	13	50	26	48	0.01												
2017	12	14	50	26	39	0.01												
2017	12	15	39	29	39	0.00												
2017	12	16	44	35	43	0.11												
2017	12	17	46	40	45	0.05												
2017	12	18	48	45	45	0.27												
2017	12	19	51	43	43	1.11												
2017	12	20	45	37	42	0.18												
2017	12	21	42	24	34	0.01												
2017	12	22	38	33	37	0.16												
2017	12	23	38	33	33	0.16												
2017	12	24	34	26	32	0.18		1.0										
2017	12	25																
2017	12	26	36	31	35	0.28												
2017	12	27	41	33	39	0.01												
2017	12	28	44	39	44	0.41												
2017	12	29	53	44	53	2.22												
2017	12	30	54	41	46	0.22												
2017	12	31	46	33	39	0.01												
Summary			46	33		6.08		1.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	01	01	43	30	35	0.01												
2018	01	02	44	31	41	0.00												
2018	01	03	46	31	45	T												
2018	01	04	49	34	46	0.01												
2018	01	05	48	40	45	0.43												
2018	01	06	46	36	45	0.12												
2018	01	07	45	39	44	0.34												
2018	01	08	45	40	43	0.56												
2018	01	09	48	42	45	0.45												
2018	01	10	46	36	44	0.08												
2018	01	11	56	44	51	0.85												
2018	01	12	52	49	51	0.14												
2018	01	13	61	47	58	0.05												
2018	01	14	63	44	60	0.00												
2018	01	15	60	37	57	0.00												
2018	01	16	57	44	53	0.14												
2018	01	17	55	41	51	0.07												
2018	01	18	52	41	46	0.15												
2018	01	19	47	42	46	0.08												
2018	01	20	49	41	47	0.06												
2018	01	21	49	41	47	0.35												
2018	01	22	49	41	45	0.44												
2018	01	23	47	39	47	0.55												
2018	01	24	47	40	46	0.33												
2018	01	25	51	38	44	0.28												
2018	01	26	45	37	44	0.19												
2018	01	27	52	41	48	0.19												
2018	01	28	58	45	57	0.07												
2018	01	29	57	48	50	0.21												
2018	01	30	50	40	46	0.78												
2018	01	31	46	39	44	0.07												
Summary			50	40		7.00		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	02	01	46	41	44	0.20												
2018	02	02	54	44	53	0.47												
2018	02	03	53	47	52	0.05												
2018	02	04	55	48	54	0.14												
2018	02	05	54	45	51	0.03												
2018	02	06	51	43	51	0.01												
2018	02	07	59	40	58	0.02												
2018	02	08	58	37	48	0.07												
2018	02	09	50	36	47	0.02												
2018	02	10	48	33	47	0.00												
2018	02	11	48	34	46	0.00												
2018	02	12	48	27	47	0.00												
2018	02	13	52	22	50	T												
2018	02	14	51	35	46	0.43												
2018	02	15	48	32	46	0.11												
2018	02	16	48	41	48	0.17												
2018	02	17	53	45	47	0.65												
2018	02	18	47	33	35	0.66												
2018	02	19	40	29	37	0.01												
2018	02	20	38	28	34	0.03												
2018	02	21	36	23	35	0.23				3.0								
2018	02	22	39	30	38	0.10												
2018	02	23	38	20	34	0.05												
2018	02	24	48	20	45	0.30												
2018	02	25	46	36	38	0.65												
2018	02	26	44	30	43	0.02												
2018	02	27	43	31	41	0.13												
2018	02	28	44	38	44	0.08												
Summary			48	35		4.63		0.0										

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	03	01	48	35	45	0.13												
2018	03	02	48	37	46	0.02												
2018	03	03	53	30	52	0.03												
2018	03	04	52	28	46	0.00												
2018	03	05	50	36	49	0.04												
2018	03	06	56	29	56	0.00												
2018	03	07	56	38	52	0.01												
2018	03	08	54	38	53	0.28												
2018	03	09	54	37	51	0.13												
2018	03	10	64	32	63	0.00												
2018	03	11	69	36	69	0.00												
2018	03	12	72	34	70	T												
2018	03	13	70	44	49	0.45												
2018	03	14	52	43	50	0.05												
2018	03	15	55	30	54	0.01												
2018	03	16	54	38	51	0.23												
2018	03	17	53	37	51	0.02												
2018	03	18	52	39	47	0.16												
2018	03	19	58	38	56	0.00												
2018	03	20	60	31	60	0.00												
2018	03	21	60	32	52	0.00												
2018	03	22	52	43	48	0.71												
2018	03	23	50	36	43	0.17												
2018	03	24	43	36	38	0.33												
2018	03	25	52	37	49	0.13												
2018	03	26	51	37	46	0.05												
2018	03	27	50	45	50	0.33												
2018	03	28	54	44	52	0.02												
2018	03	29	60	39	60	T												
2018	03	30	60	47	55	0.00												
2018	03	31	64	43	63	0.00												
Summary			56	37		3.30		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation Time	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	04	01	63	42	46	0.21												
2018	04	02	54	35	52	0.19												
2018	04	03	53	30	51	0.00												
2018	04	04	54	42	54	0.17												
2018	04	05	55	45	53	0.23												
2018	04	06	67	53	66	0.02												
2018	04	07	66	51	51	0.42												
2018	04	08	52	47	51	0.97												
2018	04	09	65	39	65	0.02												
2018	04	10	65	42	62	0.11												
2018	04	11	62	49	53	0.02												
2018	04	12	54	40	53	0.45												
2018	04	13	53	45	51	0.25												
2018	04	14	56	49	56	0.35												
2018	04	15	56	44	48	0.41												
2018	04	16	49	41	49	0.61												
2018	04	17	55	41	51	0.20												
2018	04	18	61	40	55	0.03												
2018	04	19	66	36	65	0.00												
2018	04	20	65	37	58	0.00												
2018	04	21	60	42	59	0.01												
2018	04	22	64	37	63	0.00												
2018	04	23	75	40	75	0.00												
2018	04	24	82	38	81	0.00												
2018	04	25	82	46	82	0.00												
2018	04	26	83	45	69	0.00												
2018	04	27	69	51	53	0.00												
2018	04	28	59	47	56	0.22												
2018	04	29	58	43	55	0.14												
2018	04	30	60	46	57	0.01												
Summary			62	43		5.04		0.0										

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 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	05	01	58	48	56	0.00												
2018	05	02	73	43	72	0.00												
2018	05	03	72	45	58	0.00												
2018	05	04	66	50	65	0.00												
2018	05	05	71	51	71	0.00												
2018	05	06	71	49	68	0.00												
2018	05	07	75	53	73	0.00												
2018	05	08	79	50	70	0.00												
2018	05	09	70	53	65	0.00												
2018	05	10	65	49	50	0.10												
2018	05	11	68	41	67	0.00												
2018	05	12	80	50	79	0.00												
2018	05	13	90	48	89	0.00												
2018	05	14	89	55	79	0.00												
2018	05	15	79	54	67	0.00												
2018	05	16	68	54	63	0.00												
2018	05	17	64	52	61	0.00												
2018	05	18	70	51	69	0.00												
2018	05	19	70	54	69	0.00												
2018	05	20	70	54	68	0.00												
2018	05	21	71	45	70	0.00												
2018	05	22	83	48	82	0.00												
2018	05	23	82	53	71	0.00												
2018	05	24	73	55	69	0.00												
2018	05	25	70	50	67	0.00												
2018	05	26	68	44	68	0.00												
2018	05	27	76	45	73	0.00												
2018	05	28	75	45	65	0.00												
2018	05	29	71	43	63	0.00												
2018	05	30	68	39	66	0.00												
2018	05	31	69	45	64	0.00												
Summary			73	49		0.10		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
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Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	06	01	68	42	66	0.00												
2018	06	02	81	42	79	0.00												
2018	06	03	79	51	65	0.00												
2018	06	04	69	45	67	0.00												
2018	06	05	70	42	69	0.00												
2018	06	06	74	44	73	0.00												
2018	06	07	73	54	63	0.00												
2018	06	08	68	55	58	0.11												
2018	06	09	65	47	61	0.31												
2018	06	10	63	43	58	0.13												
2018	06	11	72	45	70	0.11												
2018	06	12																
2018	06	13	76	42	66	0.02												
2018	06	14	67	52	60	0.01												
2018	06	15	71	47	69	0.00												
2018	06	16	77	54	76	0.00												
2018	06	17	88	52	88	0.00												
2018	06	18	88	55	75	0.00												
2018	06	19	87	57	76	0.00												
2018	06	20	82	60	81	0.00												
2018	06	21	81	58	67	0.00												
2018	06	22	73	58	71	0.00												
2018	06	23	73	56	70	0.00												
2018	06	24	86	52	85	0.00												
2018	06	25	85	56	68	0.41												
2018	06	26	78	48	73	0.00												
2018	06	27	75	48	63	0.00												
2018	06	28	70	47	69	0.00												
2018	06	29	78	47	67	0.00												
2018	06	30	71	57	68	0.00												
Summary			75	50		1.10		0.0										

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
These data are quality controlled and may not
be identical to the original observations.

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	07	01	70	57	68	0.00												
2018	07	02	70	52	65	0.00												
2018	07	03	76	44	75	0.00												
2018	07	04	78	52	72	0.00												
2018	07	05	83	54	82	0.00												
2018	07	06	82	53	77	0.00												
2018	07	07	79	57	74	0.00												
2018	07	08	83	51	78	0.00												
2018	07	09	78	58	66	0.00												
2018	07	10	75	57	70	0.00												
2018	07	11	84	52	84	0.00												
2018	07	12	92	56	91	0.00												
2018	07	13	91	56	81	0.00												
2018	07	14	91	53	90	0.00												
2018	07	15	98	57	96	0.00												
2018	07	16	96	58	87	0.00												
2018	07	17	87	56	79	0.00												
2018	07	18	79	59	73	0.02												
2018	07	19	74	57	68	0.00												
2018	07	20	76	46	73	0.00												
2018	07	21	78	50	77	0.00												
2018	07	22	90	52	87	0.00												
2018	07	23	90	57	84	0.00												
2018	07	24	87	56	84	0.00												
2018	07	25	89	56	86	0.00												
2018	07	26	91	57	87	0.00												
2018	07	27	87	58	78	0.00												
2018	07	28	82	52	81	0.00												
2018	07	29	92	60	90	0.00												
2018	07	30	90	59	76	0.00												
2018	07	31	77	60	73	0.00												
Summary			84	55		0.02		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	08	01	77	59	77	0.00												
2018	08	02	77	58	68	0.00												
2018	08	03	76	56	71	0.09												
2018	08	04	85	52	83	0.00												
2018	08	05	87	52	82	0.00												
2018	08	06	85	60	80	0.00												
2018	08	07	88	58	75	0.00												
2018	08	08	88	59	83	0.00												
2018	08	09	89	60	89	0.00												
2018	08	10	89	60	75	0.00												
2018	08	11	75	59	68	0.28												
2018	08	12	74	59	71	0.00												
2018	08	13	87	54	86	0.00												
2018	08	14	91	56	91	0.00												
2018	08	15	92	60	77	0.00												
2018	08	16				0.00												
2018	08	17	78	49	74	0.00												
2018	08	18	83	49	83	0.00												
2018	08	19	84	58	77	0.00												
2018	08	20	80	57	79	0.00												
2018	08	21	92	54	92	0.00												
2018	08	22	93	53	73	0.00												
2018	08	23	73	58	69	0.02												
2018	08	24	72	50	71	0.01												
2018	08	25	72	45	66	0.00												
2018	08	26	66	56	59	0.29												
2018	08	27	76	53	76	0.18												
2018	08	28	87	46	86	0.00												
2018	08	29	86	56	69	0.00												
2018	08	30	71	54	71	0.00												
2018	08	31	71	54	67	0.01												
Summary			81	55		0.88		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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U.S. Department of Commerce
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	09	01	71	46	71	0.00												
2018	09	02	77	44	74	0.00												
2018	09	03	77	50	74	0.00												
2018	09	04	81	44	80	0.00												
2018	09	05	89	47	89	0.00												
2018	09	06	89	52	78	0.00												
2018	09	07	78	52	70	0.00												
2018	09	08	72	55	70	0.02												
2018	09	09	76	49	74	0.00												
2018	09	10																
2018	09	11	74	52	59	0.37												
2018	09	12	63	53	61	0.34												
2018	09	13	67	51	64	0.21												
2018	09	14	69	52	67	0.07												
2018	09	15	67	49	55	0.46												
2018	09	16	68	55	65	0.58												
2018	09	17	68	46	66	0.02												
2018	09	18	70	40	70	T												
2018	09	19	70	44	66	0.00												
2018	09	20	71	43	70	0.00												
2018	09	21	73	45	71	0.00												
2018	09	22	71	59	63	0.08												
2018	09	23	66	46	64	0.00												
2018	09	24	71	41	71	0.00												
2018	09	25	76	44	74	0.00												
2018	09	26	78	47	77	0.00												
2018	09	27	79	51	78	0.00												
2018	09	28	83	48	83	0.00												
2018	09	29	83	55	60	0.02												
2018	09	30	67	51	62	0.02												
Summary			74	49		2.19		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	10	01	67	51	65	0.00												
2018	10	02	65	53	60	0.06												
2018	10	03	63	38	59	0.02												
2018	10	04	64	43	59	0.00												
2018	10	05	63	38	53	0.15												
2018	10	06	62	50	61	0.14												
2018	10	07	61	44	54	0.14												
2018	10	08	57	51	57	0.17												
2018	10	09	63	54	61	0.03												
2018	10	10	66	48	65	0.01												
2018	10	11	68	43	67	0.00												
2018	10	12	69	37	69	0.00												
2018	10	13	69	43	66	0.00												
2018	10	14	70	32	56	0.00												
2018	10	15	72	33	71	T												
2018	10	16	76	36	75	0.00												
2018	10	17	76	34	74	0.00												
2018	10	18	74	38	65	0.00												
2018	10	19	65	40	60	0.00												
2018	10	20	60	45	47	0.00												
2018	10	21	63	38	63	0.00												
2018	10	22	66	40	66	T												
2018	10	23	66	47	55	0.00												
2018	10	24	60	48	59	0.00												
2018	10	25	59	52	56	0.40												
2018	10	26	62	54	59	0.41												
2018	10	27	59	44	54	0.26												
2018	10	28	60	52	54	1.09												
2018	10	29	57	45	56	0.55												
2018	10	30	57	45	53	0.03												
2018	10	31	54	49	54	0.35												
Summary			64	44		3.81		0.0										

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Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	11	01	64	54	64	0.08												
2018	11	02	64	55	60	0.50												
2018	11	03	60	51	58	0.06												
2018	11	04	60	52	58	0.60												
2018	11	05	58	45	54	0.33												
2018	11	06	55	41	50	0.17												
2018	11	07	53	40	49	0.02												
2018	11	08	51	32	46	0.00												
2018	11	09	46	30	46	0.02												
2018	11	10	49	39	47	0.00												
2018	11	11	53	33	51	0.00												
2018	11	12	61	28	57	0.00												
2018	11	13	57	31	46	0.00												
2018	11	14	49	40	49	0.12												
2018	11	15	52	43	51	0.01												
2018	11	16	55	42	54	0.02												
2018	11	17	56	36	52	0.00												
2018	11	18	55	27	51	0.00												
2018	11	19	55	28	50	0.00												
2018	11	20	54	25	47	0.00												
2018	11	21				0.18												
2018	11	22	51	37	49	0.17												
2018	11	23	51	37	48	0.62												
2018	11	24	48	34	45	0.05												
2018	11	25	47	36	46	0.00												
2018	11	26	53	43	52	0.09												
2018	11	27	57	52	53	0.40												
2018	11	28	54	48	50	0.41												
2018	11	29	51	41	49	0.03												
2018	11	30	49	40	45	0.25												
Summary			54	39		4.13		0.0										

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151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	12	01	46	41	43	0.05												
2018	12	02	47	37	44	0.03												
2018	12	03	47	28	43	0.01												
2018	12	04	47	24	40	0.01												
2018	12	05	45	26	41	0.01												
2018	12	06	45	19	42	0.00												
2018	12	07	43	20	41	0.00												
2018	12	08	44	35	41	0.05												
2018	12	09	41	32	39	0.22												
2018	12	10	44	37	43	0.23												
2018	12	11	49	43	48	0.68												
2018	12	12	50	37	47	0.32												
2018	12	13	53	46	52	0.12												
2018	12	14	56	37	49	0.02												
2018	12	15	49	37	44	0.15												
2018	12	16	50	42	50	0.32												
2018	12	17	50	45	49	0.13												
2018	12	18	55	47	52	1.59												
2018	12	19	52	43	49	0.06												
2018	12	20	56	47	48	0.05												
2018	12	21	48	31	42	0.07												
2018	12	22	44	33	43	0.00												
2018	12	23	49	40	48	1.00												
2018	12	24	48	42	46	0.06												
2018	12	25	46	30	43	0.02												
2018	12	26	43	36	43	0.18												
2018	12	27	44	35	42	0.12												
2018	12	28	44	39	43	0.23												
2018	12	29	49	43	49	0.07												
2018	12	30	51	40	46	0.55												
2018	12	31	46	27	40	0.02												
Summary			48	36		6.37		0.0										

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Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	01	01	40	28	39	0.01												
2019	01	02	44	29	44	0.01												
2019	01	03	52	43	52	0.04												
2019	01	04	52	46	52	0.22												
2019	01	05	52	38	40	0.03												
2019	01	06	42	40	41	0.22												
2019	01	07	43	36	43	0.14												
2019	01	08	46	34	46	0.18												
2019	01	09	47	39	44	0.11												
2019	01	10	55	43	54	0.22												
2019	01	11	54	40	46	0.02												
2019	01	12	53	31	50	0.02												
2019	01	13	52	28	49	0.02												
2019	01	14	54	24	51	0.02												
2019	01	15	51	26	45	0.01												
2019	01	16	52	26	48	0.00												
2019	01	17	53	34	50	0.13												
2019	01	18	50	43	48	0.50												
2019	01	19	50	43	49	0.36												
2019	01	20	49	41	44	0.03												
2019	01	21	45	31	44	0.02												
2019	01	22	44	37	43	0.20												
2019	01	23	54	43	52	0.35												
2019	01	24	52	43	49	0.01												
2019	01	25	50	35	50	0.01												
2019	01	26	50	35	42	0.00												
2019	01	27	43	38	43	0.00												
2019	01	28	50	36	48	0.00												
2019	01	29	54	28	53	0.00												
2019	01	30	54	26	50	0.00												
2019	01	31	54	30	51	0.00												
Summary			50	35		2.88		0.0										

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 Station: **LONGVIEW, WA US USC00454769**

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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	02	01	51	37	44	0.07												
2019	02	02	48	40	48	0.11												
2019	02	03	48	41	42	0.08												
2019	02	04	42	30	30	0.06												
2019	02	05	40	20	38	0.00												
2019	02	06	39	19	38	0.00												
2019	02	07	40	19	40	0.00												
2019	02	08	41	28	35	0.00												
2019	02	09	39	31	35	0.32				1.0								
2019	02	10	36	25	35	0.01				T								
2019	02	11	42	32	42	0.95												
2019	02	12	44	37	41	2.68												
2019	02	13	44	37	43	0.12												
2019	02	14	45	35	40	0.15												
2019	02	15	46	37	44	0.02												
2019	02	16	44	36	41	0.30												
2019	02	17	43	33	43	0.02												
2019	02	18	43	29	41	0.02												
2019	02	19	45	37	45	0.10												
2019	02	20	47	35	45	0.26												
2019	02	21	50	25	49	0.01												
2019	02	22	49	29	37	0.27												
2019	02	23	44	32	43	0.04												
2019	02	24	43	36	42	0.12												
2019	02	25	42	33	38	0.03												
2019	02	26	42	22	39	0.02												
2019	02	27	40	31	38	0.02												
2019	02	28	43	27	38	0.02												
Summary			44	31		5.80		0.0										

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
 These data are quality controlled and may not
 be identical to the original observations.

National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	03	01	53	29	53	0.01												
2019	03	02	54	25	52	0.00												
2019	03	03	53	24	44	0.00												
2019	03	04	45	20	44	0.00												
2019	03	05	50	19	48	0.00												
2019	03	06	49	29	37	0.12												
2019	03	07	47	35	45	0.11												
2019	03	08	45	30	40	0.06												
2019	03	09	51	31	50	0.02												
2019	03	10	54	24	54	0.00												
2019	03	11	55	25	53	0.00												
2019	03	12	53	37	48	0.50												
2019	03	13	53	35	52	0.10												
2019	03	14	55	32	55	0.00												
2019	03	15	63	33	63	0.00												
2019	03	16	64	35	63	0.00												
2019	03	17	70	32	70	0.00												
2019	03	18	74	33	72	0.00												
2019	03	19	74	33	73	0.00												
2019	03	20	76	35	75	0.00												
2019	03	21	75	42	58	0.00												
2019	03	22	58	35	53	0.02												
2019	03	23	58	40	57	0.10												
2019	03	24	61	42	60	0.00												
2019	03	25	60	39	49	0.07												
2019	03	26	61	41	60	0.10												
2019	03	27	60	40	51	0.17												
2019	03	28	62	36	60	0.12												
2019	03	29	64	37	64	0.03												
2019	03	30	65	40	64	0.48												
2019	03	31	71	36	70	0.00												
Summary			59	33		2.01		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	04	01	70	44	67	0.00												
2019	04	02	69	48	61	0.03												
2019	04	03	61	49	58	0.07												
2019	04	04	61	43	59	0.00												
2019	04	05	59	48	59	0.46												
2019	04	06	62	45	58	0.37												
2019	04	07	59	45	55	0.45												
2019	04	08	56	47	55	0.45												
2019	04	09	57	47	53	0.22												
2019	04	10	53	46	52	0.15												
2019	04	11	53	47	51	0.53												
2019	04	12	60	46	57	0.10												
2019	04	13	58	46	47	0.17												
2019	04	14	52	39	46	0.16												
2019	04	15	53	37	52	0.03												
2019	04	16	58	44	58	0.13												
2019	04	17	63	47	62	0.07												
2019	04	18	74	45	73	0.03												
2019	04	19	73	53	55	0.21												
2019	04	20	67	46	67	0.13												
2019	04	21	67	41	66	0.03												
2019	04	22	66	38	58	0.11												
2019	04	23	65	38	65	0.00												
2019	04	24	68	41	66	0.00												
2019	04	25	70	44	69	0.00												
2019	04	26	69	46	60	0.00												
2019	04	27	60	45	55	0.00												
2019	04	28	65	32	64	0.00												
2019	04	29	67	37	66	0.00												
2019	04	30	70	38	70	0.00												
Summary			63	44		3.90		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
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 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	05	01	70	35	61	0.00												
2019	05	02	64	44	63	0.00												
2019	05	03	66	42	66	0.00												
2019	05	04	73	41	72	0.00												
2019	05	05	73	49	71	0.00												
2019	05	06	82	46	79	0.00												
2019	05	07	79	49	69	0.00												
2019	05	08	76	49	74	0.00												
2019	05	09	86	46	85	0.00												
2019	05	10	88	45	88	0.00												
2019	05	11	88	51	83	0.00												
2019	05	12	83	51	69	0.00												
2019	05	13	70	44	68	0.00												
2019	05	14	69	52	57	0.18												
2019	05	15	64	46	61	0.32												
2019	05	16	62	53	58	0.40												
2019	05	17	63	51	63	0.08												
2019	05	18	71	50	71	0.02												
2019	05	19	71	52	60	0.50												
2019	05	20	62	51	62	0.02												
2019	05	21	65	49	61	0.01												
2019	05	22	71	51	69	0.00												
2019	05	23	71	53	70	0.00												
2019	05	24	70	54	57	0.00												
2019	05	25	58	51	54	0.20												
2019	05	26	72	47	72	0.05												
2019	05	27	74	56	73	0.00												
2019	05	28	73	54	68	0.00												
2019	05	29	70	51	69	0.00												
2019	05	30	74	53	74	0.00												
2019	05	31	76	53	75	0.00												
Summary			72	49		1.78		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	06	01	76	50	72	0.00												
2019	06	02	73	51	71	0.00												
2019	06	03	72	49	70	0.00												
2019	06	04	75	41	74	0.00												
2019	06	05	75	52	64	0.00												
2019	06	06	64	42	60	0.11												
2019	06	07	62	47	57	0.39												
2019	06	08	67	49	67	0.28												
2019	06	09	77	43	77	0.00												
2019	06	10	83	48	82	0.00												
2019	06	11	90	62	89	0.00												
2019	06	12	97	59	90	0.00												
2019	06	13	90	58	72	0.00												
2019	06	14	73	54	65	0.00												
2019	06	15	74	53	72	0.00												
2019	06	16	74	52	72	0.00												
2019	06	17	75	56	73	0.00												
2019	06	18	73	55	66	0.00												
2019	06	19	67	53	65	0.00												
2019	06	20	66	51	63	0.00												
2019	06	21	70	53	66	0.00												
2019	06	22	70	55	68	0.00												
2019	06	23	69	53	65	0.00												
2019	06	24	69	43	68	0.00												
2019	06	25	70	46	64	0.02												
2019	06	26	75	54	73	0.00												
2019	06	27	73	55	65	0.30												
2019	06	28	72	51	72	0.04												
2019	06	29	79	49	79	0.00												
2019	06	30	83	51	82	0.00												
Summary			74	51		1.14		0.0										

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U.S. Department of Commerce
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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	07	01	82	55	69	0.00												
2019	07	02	71	54	67	0.00												
2019	07	03	70	56	68	0.00												
2019	07	04	73	56	72	0.00												
2019	07	05	73	58	70	0.00												
2019	07	06	72	58	67	0.00												
2019	07	07	70	55	69	0.01												
2019	07	08	73	57	71	0.00												
2019	07	09	74	54	70	0.01												
2019	07	10	71	61	70	0.27												
2019	07	11	75	51	73	0.00												
2019	07	12	80	55	79	0.00												
2019	07	13	82	56	76	0.00												
2019	07	14	82	54	80	0.00												
2019	07	15	81	62	67	0.22												
2019	07	16	78	61	70	T												
2019	07	17	76	59	65	0.12												
2019	07	18	73	58	72	0.12												
2019	07	19	74	46	73	0.00												
2019	07	20	83	47	82	0.00												
2019	07	21	84	52	84	0.00												
2019	07	22	84	56	80	0.00												
2019	07	23	80	59	70	0.00												
2019	07	24	79	52	79	0.05												
2019	07	25	87	51	86	0.00												
2019	07	26	87	56	79	0.00												
2019	07	27	80	61	75	0.00												
2019	07	28	82	51	79	0.00												
2019	07	29	82	56	76	0.00												
2019	07	30	78	57	77	0.00												
2019	07	31	83	53	80	0.00												
Summary			78	55		0.80		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	08	01	87	57	86	0.00												
2019	08	02	86	61	69	0.10												
2019	08	03	84	57	82	0.00												
2019	08	04	89	56	78	0.00												
2019	08	05	81	59	78	0.00												
2019	08	06	79	58	75	0.00												
2019	08	07	76	59	72	0.00												
2019	08	08	72	60	68	0.00												
2019	08	09	73	60	70	0.00												
2019	08	10	76	60	75	0.12												
2019	08	11	78	55	72	0.00												
2019	08	12	82	54	80	0.00												
2019	08	13	87	54	86	0.00												
2019	08	14	87	58	80	0.00												
2019	08	15	80	58	78	0.00												
2019	08	16	78	58	71	0.00												
2019	08	17	71	59	69	0.00												
2019	08	18	72	59	71	0.00												
2019	08	19	76	58	75	0.00												
2019	08	20	79	49	73	0.00												
2019	08	21	73	52	65	0.05												
2019	08	22	73	49	72	0.23												
2019	08	23	80	50	80	0.00												
2019	08	24	80	55	71	0.00												
2019	08	25	76	53	76	0.00												
2019	08	26	82	49	81	0.00												
2019	08	27	93	59	93	0.00												
2019	08	28	93	53	88	0.00												
2019	08	29	88	60	71	0.07												
2019	08	30	73	63	72	0.17												
2019	08	31	80	54	77	0.00												
Summary			80	56		0.74		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	09	01	79	57	77	0.00												
2019	09	02	81	58	80	0.00												
2019	09	03	81	59	72	0.00												
2019	09	04	76	60	76	0.00												
2019	09	05	81	53	80	0.00												
2019	09	06	84	63	68	0.01												
2019	09	07	69	62	66	0.00												
2019	09	08	70	59	64	0.19												
2019	09	09	66	60	63	0.50												
2019	09	10	71	56	71	0.23												
2019	09	11	73	55	72	0.00												
2019	09	12	81	54	77	0.00												
2019	09	13	77	48	72	0.13												
2019	09	14	74	56	73	0.00												
2019	09	15	73	58	59	0.69												
2019	09	16	64	52	60	0.34												
2019	09	17	64	56	63	0.30												
2019	09	18	67	54	66	0.12												
2019	09	19	69	49	68	0.21												
2019	09	20	70	56	67	0.05												
2019	09	21	69		68	0.00												
2019	09	22	69	58	64	0.26												
2019	09	23	65	50	65	0.05												
2019	09	24	72	58	71	0.02												
2019	09	25	73	46	71	0.00												
2019	09	26	71	57	67	0.05												
2019	09	27	68	49	59	0.07												
2019	09	28	60	44	56	0.10												
2019	09	29	58	43	51	0.31												
2019	09	30	59	37	57	0.01												
Summary			71	54		3.64		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	10	01	64	35	63	0.01												
2019	10	02		33		0.00												
2019	10	03	61	45	53	0.33												
2019	10	04	59	48	58	0.12												
2019	10	05	64	44	61	0.12												
2019	10	06	66	44	66	0.01												
2019	10	07	66	40	62	0.00												
2019	10	08	62	49	54	0.26												
2019	10	09	56	33	55	0.01												
2019	10	10	60	28	60	0.00												
2019	10	11	68	29	67	0.00												
2019	10	12	67	34	62	0.00												
2019	10	13	62	45	60	0.00												
2019	10	14	63	37	62	0.00												
2019	10	15	62	37	59	0.00												
2019	10	16	59	50	57	0.30												
2019	10	17	59	50	56	0.32												
2019	10	18	56	44	55	0.34												
2019	10	19	58	49	53	1.26												
2019	10	20	55	43	53	0.04												
2019	10	21	60	49	60	0.09												
2019	10	22	63	55	60	0.47												
2019	10	23	62	42	62	0.00												
2019	10	24	69	38	69	0.00												
2019	10	25	69	41	58	0.00												
2019	10	26	58	36	53	0.00												
2019	10	27	58	33	55	0.00												
2019	10	28	56	27	54	0.01												
2019	10	29	54	26	49	0.00												
2019	10	30	56	23	55	0.00												
2019	10	31	56	24	55	0.00												
Summary			61	39		3.69		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
 These data are quality controlled and may not
 be identical to the original observations.

National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	11	01	60	26	59	0.00												
2019	11	02	62	32	62	0.00												
2019	11	03	63	35	54	0.00												
2019	11	04	57	40	54	0.02												
2019	11	05	54	40	52	0.00												
2019	11	06	55	35	52	0.00												
2019	11	07	60	33	56	0.01												
2019	11	08	63	30	55	0.00												
2019	11	09	55	37	50	0.11												
2019	11	10	55	49	55	0.12												
2019	11	11	64	44	57	0.00												
2019	11	12	57	42	50	0.10												
2019	11	13	59	46	54	0.01												
2019	11	14	55	40	54	0.00												
2019	11	15	55	41	54	0.20												
2019	11	16	54	45	52	0.03												
2019	11	17	55	51	54	0.12												
2019	11	18	54	51	53	0.26												
2019	11	19	55	46	51	0.65												
2019	11	20	53	36	49	0.01												
2019	11	21	49	31	47	0.00												
2019	11	22	48	29	46	0.02												
2019	11	23	50	31	48	0.00												
2019	11	24	51	40	50	0.09												
2019	11	25	50	35	46	0.25												
2019	11	26	46	34	41	0.08												
2019	11	27	45	35	42	0.00												
2019	11	28	44	30	42	0.00												
2019	11	29	42	22	41	0.00												
2019	11	30	44	18	39	0.00												
Summary			54	37		2.08		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	12	01	44	32	40	0.23												
2019	12	02	49	30	47	0.00												
2019	12	03	47	32	44	0.00												
2019	12	04	52	38	49	0.00												
2019	12	05	50	41	50	0.00												
2019	12	06	50	34	45	0.02												
2019	12	07	47	43	47	0.46												
2019	12	08	51	43	51	0.02												
2019	12	09	51	43	46	0.02												
2019	12	10	46	38	42	0.46												
2019	12	11	49	42	48	0.28												
2019	12	12	51	45	50	0.74												
2019	12	13	50	40	46	0.12												
2019	12	14	47	40	45	0.05												
2019	12	15	45	36	42	0.00												
2019	12	16	49	36	47	0.03												
2019	12	17	47	28	41	0.00												
2019	12	18	41	33	40	0.00												
2019	12	19	48	39	48	0.50												
2019	12	20	55	48	53	1.64												
2019	12	21	54	44	45	0.78												
2019	12	22	46	39	44	0.03												
2019	12	23	44	39	42	0.17												
2019	12	24	42	34	39	0.02												
2019	12	25	42	37	42	0.06												
2019	12	26	42	32	40	0.05												
2019	12	27	42	37	42	0.12												
2019	12	28	46	39	43	0.05												
2019	12	29	46	40	44	0.09												
2019	12	30	47	40	46	0.01												
2019	12	31	47	41	46	1.36												
Summary			47	38		7.31		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	01	01	55	46	49	0.28												
2020	01	02	49	40	47	0.19												
2020	01	03	55	47	55	0.05												
2020	01	04	56	38	45	0.39												
2020	01	05	48	42	45	0.20												
2020	01	06	49	42	48	1.79												
2020	01	07	53	48	50	0.27												
2020	01	08	50	40	40	0.33												
2020	01	09	49	32	40	0.14												
2020	01	10	45	39	45	0.62												
2020	01	11	47	43	43	0.88												
2020	01	12	44	39	41	1.01												
2020	01	13	42	34	38	0.34												
2020	01	14	40	33	37	0.15												
2020	01	15	41	31	39	0.05												
2020	01	16	43	37	41	0.14												
2020	01	17	42	30	41	0.07												
2020	01	18	50	40	50	0.17												
2020	01	19	55	41	54	0.01												
2020	01	20	54	42	45	0.00												
2020	01	21	47	41	46	0.53												
2020	01	22	48	44	48	0.18												
2020	01	23	54	48	53	0.19												
2020	01	24	55	50	53	0.42												
2020	01	25	55	47	54	0.18												
2020	01	26	54	47	52	0.26												
2020	01	27	52	42	47	0.30												
2020	01	28	53	38	51	1.37												
2020	01	29	51	47	48	0.42												
2020	01	30	50	42	50	0.01												
2020	01	31	58	49	58	0.49												
Summary			50	41		11.43		0.0										

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

Record of Climatological Observations
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	02	01	58	44	45	0.48												
2020	02	02	46	32	44	0.05												
2020	02	03	46	30	42	0.05												
2020	02	04	42	28	38	0.06												
2020	02	05	46	38	46	0.52												
2020	02	06	53	46	52	0.85												
2020	02	07	55	49	50	1.14												
2020	02	08	50	41	46	0.61												
2020	02	09	50	33	49	0.03												
2020	02	10	51	34	50	0.00												
2020	02	11	50	33	45	0.00												
2020	02	12	49	41	46	0.05												
2020	02	13	46	33	42	0.05												
2020	02	14	49	36	47	0.34												
2020	02	15	47	42	44	0.28												
2020	02	16	50	34	47	0.20												
2020	02	17	51	34	46	0.12												
2020	02	18	50	33	50	0.01												
2020	02	19	58	26	56	0.00												
2020	02	20	59	25	59	0.01												
2020	02	21	59	25	57	0.01												
2020	02	22	57	31	50	0.01												
2020	02	23	50	41	47	0.34												
2020	02	24	51	37	48	0.16												
2020	02	25	50	31	49	0.03												
2020	02	26	55	43	54	0.04												
2020	02	27	63	35	59	0.00												
2020	02	28	59	36	51	0.00												
2020	02	29	53	37	41	0.62												
Summary			52	35		6.06		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
Observations**
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	03	01	49	33	48	0.02												
2020	03	02	48	41	45	0.01												
2020	03	03	57	43	52	0.03												
2020	03	04	55	39	53	0.10												
2020	03	05	56	32	54	0.00												
2020	03	06	54	38	42	0.35												
2020	03	07	45	38	43	0.15												
2020	03	08	48	36	48	0.01												
2020	03	09	54	28	54	0.00												
2020	03	10	60	28	57	0.00												
2020	03	11	58	37	55	0.05												
2020	03	12	56	29	55	0.01												
2020	03	13	56	33	40	0.23												
2020	03	14	42	32	42	0.38												
2020	03	15	51	28	51	0.02												
2020	03	16	61	27	60	0.00												
2020	03	17	62	28	60	0.00												
2020	03	18	60	34	57	0.00												
2020	03	19	64	32	64	0.00												
2020	03	20	67	33	66	0.00												
2020	03	21	67	36	59	0.00												
2020	03	22	61	35	55	0.00												
2020	03	23	55	43	52	0.10												
2020	03	24	54	42	43	0.14												
2020	03	25	50	36	41	0.04												
2020	03	26	47	33	47	0.15												
2020	03	27	47	42	44	0.05												
2020	03	28	53	44	52	0.06												
2020	03	29	57	45	55	0.16												
2020	03	30	55	39	40	0.46												
2020	03	31	50	39	49	0.30												
Summary			55	36		2.82		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
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 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	04	01	53	38	43	0.09												
2020	04	02	52	38	50	0.06												
2020	04	03	53	40	51	0.11												
2020	04	04	54	41	52	0.05												
2020	04	05	60	42	60	0.05												
2020	04	06	65	34	62	0.00												
2020	04	07	63	34	63	0.00												
2020	04	08	69	34	69	0.00												
2020	04	09	75	37	74	0.00												
2020	04	10	74	45	58	0.00												
2020	04	11	61	46	58	0.00												
2020	04	12	65	32	64	0.00												
2020	04	13	67	33	65	0.00												
2020	04	14	67	30	60	0.00												
2020	04	15	68	48	65	0.01												
2020	04	16	73	38	72	0.00												
2020	04	17	77	36	76	0.00												
2020	04	18	76	48	54	0.19												
2020	04	19	58	48	57	0.06												
2020	04	20	68	40	67	0.00												
2020	04	21	67	48	59	0.00												
2020	04	22	59	43	55	0.32												
2020	04	23	60	48	58	0.09												
2020	04	24	60	47	57	0.11												
2020	04	25	63	49	59	0.30												
2020	04	26	64	40	64	0.00												
2020	04	27	65	49	62	0.12												
2020	04	28	68	44	66	0.05												
2020	04	29	70	50	69	0.00												
2020	04	30	71	48	59	0.01												
Summary			65	42		1.62		0.0										

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 Current Location: Elev: 12 ft. Lat: 46.1505° N Lon: -122.9163° W
 Station: **LONGVIEW, WA US USC00454769**

**Record of Climatological
 Observations**
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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Generated on 07/24/2020

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At O b s e r v a t i o n	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	F l a g	Snow, Ice Pellets, Hail (in)	F l a g	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	05	01	62	36	61	0.01												
2020	05	02	61	50	54	0.32												
2020	05	03	59	43	59	0.31												
2020	05	04	67	40	61	0.03												
2020	05	05	72	47	70	0.19												
2020	05	06	71	47	60	0.17												
2020	05	07	72	37	71	0.00												
2020	05	08	82	44	82	0.00												
2020	05	09	88	46	87	0.00												
2020	05	10	88	51	86	0.00												
2020	05	11	87	54	62	T												
2020	05	12	66	49	61	0.22												
2020	05	13	64	51	62	0.08												
2020	05	14	63	50	56	0.65												
2020	05	15	65	51	64	0.00												
2020	05	16	67	51	65	0.07												
2020	05	17	69	51	64	0.34												
2020	05	18	68	47	66	0.00												
2020	05	19	67	51	61	0.03												
2020	05	20	61	50	58	0.01												
2020	05	21	59	46	54	0.16												
2020	05	22	61	44	60	0.18												
2020	05	23	62	49	60	0.00												
2020	05	24	74	46	71	0.00												
2020	05	25	71	50	61	0.10												
2020	05	26	71	44	68	0.00												
2020	05	27	80	46	79	0.00												
2020	05	28	89	46	89	0.00												
2020	05	29	89	56	73	0.00												
2020	05	30	73	52	55	0.07												
2020	05	31	61	50	60	0.23												
Summary			71	48		3.17		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.